## JOURNAL OF GENERAL CHEMISTRY

## Volume 52, Numbers 1-12, 1982

(A translation of Zhurnal Obshchei Khimii)

# Volume 52, Number 1, Part 1 January, 1982

|   | Eng | gl./Russ. |
|---|-----|-----------|
| Layer Formation in Extraction Systems Containing Methylenebisantipyrine.  VI. Solubility of Methylenebisantipyrine Hydriodide in Mixtures of Organic Solvents — B. I. Petrov, K. G. Galinova,   |     |           |
| and Yu. A. Shchurov   | 1   | 3         |
| - M. M. Tarnorutskii  | 5   | 7         |
| and N. F. Rozhkova  | 10  | 12        |
| and A. N. Pudovik   | 17  | 19        |
| Zh. V. Molodykh, and G. A. Tudrii   | 18  | 21        |
| N. I. Gusar', and Yu. G. Gololobov  | 21  | 24        |
| Group - R. P. Arshinova   | 27  | 30        |
| T. A. Zyablikova, A. V. Il'yasov, and I. M. Shermergorn Phosphorotropic Tautomeric Migrations of Phosphorus(III)-Containing Groups in the N-C-N Triad of Amidines — V. V. Negrebetskii,   | 31  | 35        |
| L. Ya. Bogel'fer, A. D. Sinitsa, V. I. Kal'chenko, V. S. Krishtal', and L. N. Markovskii  | 36  | 40.       |
| G. V. Sheban, G. V. Shandurenko, G. V. Avramenko,   | 44. | 49.       |
| and B. I. Stepanov  |     |           |
| - K. A. Petrov, V. A. Chauzov, and S. V. Agafonov   | 53  | 58        |
| Reagents — V. N. Zontova, A. F. Grapov, and N. N. Mel'nikov  Ionic Association of Onium Salts in Solutions. XIV. Conductivities of Trimethylphenylammonium, Trimethylphenylphosphonium,   | 59  | 64        |
| and Trimethylphenylarsonium Iodides in Acetone — V. M. Tsentovskii, V. I. Gavrilov, and R. R. Rakhmatullin  | 62  | 68        |
| of Group IV Elements - V. A. Dodonov, D. F. Grishin, O. S. Morozov, and V. K. Cherkasov   | 66  | 71        |
| Closocyclization of the Dianion from 3-Amino-o-carbaborane into 2-Amino-m-carbaborane — V. I. Stanko and Yu. V. Gol'tyapin Relation of the Sorbabilities of the Reactants to the Kinetic Parameters of the Hydrosilylation Reaction in Presence of H <sub>2</sub> PtCl <sub>6</sub> Supported | 72  | 78        |
| on an Ion-Exchanger - T. N. Zaslavskaya, N. A. Filippov, and V. O. Reikhsfel'd  | 74  | 80        |
| of Fe(III)-Tetraphenylporphine - O. A. Golubchikov, B. D. Berezin,  | 77  | 83        |

Engl./Russ.

| LETTERS TO THE EDITOR  |     |     |
|--|-----|-----|
| Slow Inversion of the Configuration of the Tetrahedral Nickel Atom in Paramagnetic Bischelate Complexes — L. E. Nivorozhkin,   |     |     |
| L. E. Konstantinovskii, M. S. Korobov, A. L. Nivorozhkin, and V. I. Minkin   | 187 | 205 |
| Synthesis of As-tert-Butyl-N,N-diethyl-As-phenylarsinothioic Amide - L. B. Ionov, S. I. Zobnin, V. A. Shuklin, and G. B. Zamost'yanova.  Reactions of Ethylene (α-Alkoxybenzylidene)phosphoramidites with Carbonyl Compounds - I. V. Konovalova, M. V. Cherkina, L. A. Burnaeva, | 188 | 206 |
| and A. N. Pudovik  | 189 | 207 |
| Z. A. Bredikhina, A. D. Sinitsa, V. I. Kal'chenko, and A. N. Pudovik.  Reactions of O,O-Dialkyl Hydrogen Phosphorothioates and of Diphenylphosphinothioic Acid with Cyclohexyl Isocyanide  | 190 | 208 |
| - M. G. Zimin, N. G. Zabirov, and A. N. Pudovik  | 191 | 209 |
| and T. A. Bezborodova  | 192 | 211 |
| and N. Yu. Baranova  | 193 | 212 |
| Yu. Ya. Efremov, and I. M. Shermergorn   | 194 | 213 |
| - G. K. Fedorova, A. G. Matyusha, and N. G. Feshchenko   | 195 | 214 |
| and A. A. Petrov   | 196 | 215 |
| and K. D. Galstyan   | 197 | 217 |
| A. K. Akhlebinin, and É. E. Nifant'ev  | 198 | 218 |
| V. B. Panov, and O. Yu. Okhlobystin  | 200 | 219 |
| and T. I. Koroleva   | 201 | 220 |
| and A. G. Matyusha   | 202 | 222 |
| Procedure in the Synthesis of (Aminooxy)actic Acid Hydrochloride  — A. D. Zorina, V. F. Martynov, L. G. Matyukhina,  |     |     |
| and I. A. Saltykova  | 204 | 223 |
| Volume 52, Number 2, Part 1 February, 1982   |     |     |
| Influence of Chloride Ions on the Structure of a Concentrated Solution of Cobalt(II)  Nitrate at High Temperature - M. I. Stroeva  Calorimetric Determination of the Enthalpies of Vaporization of the Molecular   | 205 | 233 |
| Complexes GaCl <sub>3</sub> · (C <sub>2</sub> H <sub>5</sub> ) <sub>2</sub> O and GaCl <sub>3</sub> · (C <sub>2</sub> H <sub>5</sub> ) <sub>2</sub> S - Yu. V. Kondrat'ev,<br>S. D. Ershov, and A. V. Suvorov  | 208 | 236 |
| Apicophilicity of the Exocyclic Group, the Structure, and the Stability of Spirophosphoranes - V. V. Ragulin, A. A. Petrov, V. I. Zakharov,  |     |     |
| and N. A. Razumova   | 211 | 239 |
| V. Ya. Komarov, V. I. Zakharov, and B. I. Ionin  | 219 | 250 |
| and B. I. Ionin  | 229 | 264 |

| Reactions of Diethyl (2-Ethoxyvinyl)phosphonite with Substituted Nitrilimines - A. Yu. Platonov, I. G. Trostyanskaya, M. A. Kazankova, and V. N. Chistokletov.  Preservation of the P-N Bond in the Reactions of γ-Ketoalkyl Phosphoramidites with | 233 | 268 |
|--|-----|-----|
| Proton-Donor Reagents - F. S. Mukhametov, L. V. Stepashkina,   |     |     |
| N. I. Rizpolozhenskii, and R. R. Shagidullin   | 236 | 272 |
| phosphonic Esters with Alcohols — Yu. M. Dangyan, G. A. Panosyan, M. G. Voskanyan, and Sh. O. Badanyan   | 240 | 277 |
| Role of Complexes of 1-Propanol with Sulfuric Acid in Alkylation Reactions of Benzene - B. G. Lipovich, T. G. Laperdina, L. E. Latysheva,  |     |     |
| and G. A. Kalabin  | 246 | 284 |
| and I. M. Shermergorn  | 249 | 287 |
| M. G. Voronkov, and Yu. I. Sukhorukov  | 253 | 292 |
| Media - A. G. Kharitonov and V. S. Glukhovskoi   | 264 | 305 |
| and M. I. Khmil'ovskaya  | 268 | 309 |
| T. V. Zykova, and R. A. Salakhutdinov  | 274 | 316 |
| Infrared Spectra and Peculiar Features of Conjugation Effects in Complexes of Diarylmethylphosphine Oxides with Phenol in CCl <sub>4</sub> - A. A. Shvets, L. V. Goncharova, N. E. Zaviryukhina, O. A. Moiseeva, L. N. Talanova, and O. A. Osipov  | 279 | 323 |
| Association Constants of Triarylphosphine Oxides with Phenol and Features of the Transmission of Electronic Effects of Substituents - A. A. Shvets, N. I. Dorokhova,   |     |     |
| L. V. Goncharova, and O. A. Osipov  Ionic Equilibria in Solutions of the Pyridinium Salt of  | 283 | 327 |
| Tetracarbonylhydrocobalt [Pyridinium Tetracarbonylcobaltate(I)]  | 286 | 331 |
| - M. S. Borovikov, G. N. Gvozdovskii, V. A. Rybakov, and B. I. Tarasov   | 200 | 001 |
| Triiodomercurates in Acetone and Dimethylformamide — V. M. Tsentovskii, I. B. Ryabchenko, and B. D. Chernokal'skii   | 289 | 334 |
| A. V. Supyrev, and N. L. Kucherova   | 292 | 338 |
| of Enantiomers of Allylmethylphenylarsine – L. B. Ionov, V. A. Shchuklin, S. I. Zobnin, and G. B. Zamost'yanova  | 295 | 342 |
| Volume 52, Number 2, Part 2 February, 1982   |     |     |
| 1-[(Organoammonio)methyl]silatrane Iodides — M. G. Voronkov,<br>Yu. A. Lukina, V. M. D'yakov, Yu. L. Frolov, and S. N. Tandura   | 301 | 349 |
| 13C NMR Spectra of Chloroethoxyorganosilanes - A. I. Chernyshev.   |     |     |
| I. S. Shragin, V. M. Kopylov, and S. E. Esipov   | 306 | 354 |
| and B. I. Stepanov   | 310 | 358 |
| and N. S. Nametkin   | 313 | 362 |
| and the Geminal Coupling Constants <sup>2</sup> J <sub>CH</sub> — I. F. Tupitsyn and N. N. Zatsepina   | 320 | 370 |
| in Dimethylformamide - G. K. Budnikov, O. Yu. Kargina,   | 330 | 380 |

| Electrochemical Reduction of Benzoates at a Dropping Mercury Electrode<br>in Dimethylformamide and the Influence of Proton Donors  |            |     |
|--|------------|-----|
| - L. S. Reishakhrit and T. B. Argova   | 334        | 38. |
| - E. N. Krylov and S. G. Khokhlova   | 341        | 39  |
| - N. A. Sokolov and V. V. Pereshein  | 344        | 39  |
| pyridyl)methanols — V. M. Petrichenko and M. E. Konshin Oxidation of Cumene in Presence of Inner-Complex Zinc Compounds  Activated with 1,10-Phenanthroline — S. K. Kozlov, L. V. Alam,                | 348        | 39  |
| V. M. Potekhin, V. N. Bagal, V. I. Ovchinnikov,<br>and F. I. Tovstokhat'ko   | 350        | 401 |
| of N-(5-Methyl-1,3,4-thiadiazol-2-yl)succinamic Acid in Dimethylformamide - V. A. Shapovalov, V. I. Kabachnyi,   |            |     |
| P. A. Bezuglyi, V. P. Chernykh, and V. D. Bezuglyi Silyl Steroids. VI. Synthesis of Disilyl Steroids by the Reductive Silylation of a Naphthalene Steroid — O. N. Minailova,                           | 354        | 40  |
| V. M. Rzheznikov, and K. K. Pivnitskii   | 357        | 40  |
| glucofuranose 3,5,6-Bicyclophosphites — S. A. Rumyantseva,<br>M. P. Koroteev, S. A. Lysenko, A. S. Shashkov, and É. E. Nifant'ev.  | 366        | 418 |
| Natural Peptides and Their Analogs. XXV. Synthesis of Partially Protected Peptides Corresponding to the B 9-14 and B 13-20   |            |     |
| Fragments of Human Insulin — L. A. Kolomeitseva, N. A. Kocharova, L. D. Ibragimova, V. F. Krivtsov, and Yu. P. Shvachkin   | 372        | 426 |
| - V. A. Radyukhin, N. A. Kazakova, E. I. Filippovich, and R. P. Evstigneeva  | 377        | 432 |
| LETTERS TO THE EDITOR  One-Electron Transfer in the Reaction of Ethyl Diphenylphosphinothioite with 1-Nitropropene - V. A. Al'fonsov, R. D. Gareev, É. I. Gol'dfarb, É. S. Batyeva, I. M. Shermergorn, |            |     |
| and A. N. Pudovik  | 385        | 441 |
| - B. A. Kashemirov, P. S. Khokhlov, and Yu. A. Strepikheev Reactions of Phosphorisocyanatidites with Alkyl and Aryl Isocyanates - B. N. Kozhushko, E. B. Silina, M. I. Povolotskii,                    | 386        | 442 |
| and V. A. Shokol   | 387        | 443 |
| - V. I. Yudelevich, A. P. Fetter, E. V. Komarov, and B. I. Ionin  Reaction of N-Chloro-N,N'-dimethylbenzamidine with Butyl  Phosphorodifluoridite. N,N'-Dimethylbenzamidinium                          | 388        | 444 |
| Tetrafluorophosphate - L. N. Markovskii, A. D. Sinitsa,  | 200        |     |
| V. I. Kal'chenko, L. I. Atamas', and V. V. Negrebetskii P-Chloro Ylide-Phosphine Oxide Rearrangement — O. I. Kolodyazhnyi  | 389<br>390 | 445 |
| Reaction of Triethyl Phosphite with 2-Furaldehyde Oxime - M. P. Osipova,<br>L. V. Kuz'mina, and V. A. Kukhtin  | 392        | 448 |
| α-(Hydroxyamino) Phosphonates - M. P. Osipova, P. M. Lukin, and V. A. Kukhtin  | 393        | 449 |
| Reaction of Triethyl Phosphite with Cinnamaldehyde Oxime - M. P. Osipova, L. A. Mikhailova, and V. A. Kukhtin  | 394        | 449 |
| Reactions of 2-Bromo Ethylenic Compounds of Tervalent Phosphorus with Nitrilimines — A. Yu. Platonov, E. D. Maiorova,  | 20.5       | 451 |
| G. S. Akimova, and V. N. Chistokletov  | 395        | 451 |
| - N. V. Komarov, A. A. Andreev, and V. S. Senichev   | 396        | 452 |
| and Reaction with Complex Metal Hydrides — I. V. Suvorova and M. D. Stadnichuk   | 397        | 453 |
| in Electron-Donor Solvents — E. T. Bogoradovskii, V. S. Zavgorodnii, B. V. Polozov, and A. A. Petrov   | 399        | 455 |
| Synthesis of a-Germylated Carboxylic Esters - D. V. Gendin, L. I. Rybin,   | 400        | 456 |

| New Reaction Leading to Unstable 2,2-Dimethyl-1,2-oxasiletane - L. E. Gusel'nikov, Z. A. Kerzina, Yu. P. Polyakov,  |       |     |
|---|-------|-----|
| and N. S. Nametkin  | 401   | 457 |
| and V. D. Volkov  | 402   | 458 |
| - M. A. Pudovik, T. A. Mironova, and A. N. Pudovik  | 403   | 459 |
| of the Mercapto Group of Cysteine — O. S. Papsuevich, G. I. Aukone, S. Ya. Miksta, and U. O. Kalei  | 404   | 460 |
|   |       |     |
| Volume 52, Number 3, Part 1 March, 1982   |       |     |
| Thermochemistry of Aqueous Solutions of Cerium and Neodymium Chlorides  |       |     |
| - A. S. Monaenkova, R. S. Umyarova, L. P. Reshetnikova,   | 407   | 465 |
| and A. F. Vorob'ev  | 407   | 403 |
| Analysis - Yu. A. Shchurov and F. R. Verzhbitskii   | 410   | 468 |
| - V. V. Kireev, V. I. Astrina, and A. A. Goryaev Solubility of Ozone in Some Liquid Organic Compounds - B. I. Tarunin,  | 415   | 473 |
| M. L. Perepletchikov, and Yu. A. Aleksandrov  | 419   | 478 |
| Cyanate - M. G. Zimin, R. M. Kamalov, R. A. Cherkasov, and A. N. Pudovik  | 423   | 482 |
| dioxaphosphole with Carboxylic Acids - T. Kh. Gazizov, R. U. Belyalov, and A. N. Pudovik  | 428   | 487 |
| Synthesis and Some Properties of 1,3,2-Oxazaphospholidines with a P-C Bond - M. A. Pudovik, S. A. Terent'eva, and A. N. Pudovik   | 431   | 491 |
| Synthesis and Some Properties of Dialkyl Phenylphosphoramidodithioites — V. P. Kostin, O. G. Sinyashin, É. S. Batyeva, and A. N. Pudovik .  | 437   | 498 |
| Reactions of S-(Trimethylsilyl) Phosphorodithioates with Isocyanates — G. A. Kutyrev, A. V. Lygin, R. A. Cherkasov, and A. N. Pudovik .   | 439   | 501 |
| Reactions of 2-Monoanils of 1,2,3-Tricarbonyl Compounds with Dimethyl Hydrogen Phosphite - B. A. Arbuzov, N. A. Polezhaeva,   | 1.1.6 | 500 |
| and O. V. Ovodova   | 446   | 509 |
| and A. I. Shatenshtein  | 450   | 513 |
| Equilibrium PH Acidity of Some Primary and Secondary Arylphosphines<br>in Dimethyl Sulfoxide — M. I. Terekhova, N. A. Bondarenko,<br>I. G. Malakhova, E. N. Tsvetkov, É. S. Petrov,     |       |     |
| and A. I. Shatenshtein  | 452   | 516 |
| -V. K. Brel', A. V. Dogadina, B. I. Ionin, and A. A. Petrov Carbon-13 Chemical Shifts of Mono- and Di-hydric Phenols  | 456   | 520 |
| - V. V. Vasil'ev, V. Ya. Kamarov, L. B. Vetkova, and B. I. Ionin  | 460   | 524 |
| Intermediate Compounds in Arbuzov Reactions of Fluorine-Containing Phosphonites — I. G. Maslennikov, A. N. Lavrent'ev,  | 464   | 529 |
| G. N. Prokof'eva, and T. B. Alekseeva   |       | 532 |
| - V. I. Shibaev, A. V. Garabadzhiu, and A. N. Lavrent'ev Synthesis and Catalytic Properties of Rhodium Complexes of 2-Amino-1,3,2-dioxaphosphorinanes - A. T. Teleshev, G. M. Grishina, | 407   | 332 |
| and E. E. Nifant'ev   | 468   | 533 |
| of Reactions of Alkanesulfenyl Chlorides with 1,2-Alkadienylphosphonates - Kh. M. Angelov, K. V. Vachkov,   |       |     |
| M. Kirilov, and V. B. Lebedev   | 472   | 538 |

| Electrophilic Properties of Chlorine in the Trigonal Bipyramid  |     |      |
|---|-----|------|
| of Phosphorus Chlorides - B. V. Timokhin, V. K. Dmitriev,   | 170 | 540  |
| and V. I. Dmitriev  | 4/6 | 543  |
| Peculiar Features of the Reactions of Phosphorus Pentachloride with gem-Disubstituted Ethylenes - V. V. Rybkina, V. G. Rozinov, |     |      |
| V. E. Kolbina, A. V. Kalabina, V. I. Glukhikh, and G. V. Ratovskii .  | 480 | 548  |
| Phosphorylated Adamantanes. III. Influence of a Phosphoryl Group  | 400 | 240  |
| on the Reactivity of the Adamantane Nucleus - R. I. Yurchenko,  |     |      |
| O. M. Voitsekhovskaya, A. M. Pinchuk, E. É. Lavrova,  |     |      |
| and A. G. Yurchenko   | 489 | 558  |
| Amidation of Phosphorus(III) Acid Chlorides with N,N,N',N'-   |     |      |
| Tetraalkylmethanediamines - V. P. Kukhar' and M. V. Shevchenko  | 492 | 562  |
| Δ2-1,3,4-Oxazaphospholine 4-Oxides - Yu. A. Paliichuk, B. N. Kozhushko,   |     |      |
| and V. A. Shokol  | 497 | 566  |
| Synthesis of Some Phosphorylated Anthranilic Esters   |     |      |
| - N. P. Grechkin, L. K. Nikonorova, and L. A. Zhelonkina  | 503 | 574  |
| Molecular Polarizability of Organic Compounds and Their Complexes.  |     |      |
| XX. Probable Conformations of Some Tetraarylphosphine   |     |      |
| Imides in Solution - S. B. Bulgarevich, N. A. Ivanova,  | 506 |      |
| D. Ya. Movshovich, T. A. Yusman, V. A. Kogan, and O. A. Osipov  | 506 | 577  |
| Synthesis of N-Silylated Phosphorodiamidimidic Chlorides and Study  |     |      |
| of Their Silylotropic Tautomerism - V. D. Romanenko,  | E10 | 501  |
| A. V. Ruban, S. V. Iksanova, and L. N. Markovskii   | 210 | 581  |
|   |     |      |
|   |     |      |
| Volume 52, Number 3, Part 2 March, 1982   |     |      |
| Reactions of Substituted 2,2-Dichloro-1,3,5,2\lambda^5-triazaphosphorines   |     |      |
| with Sodium Benzenethiolate, Phenoxides, and Alkoxides  |     |      |
|   | 610 | 500  |
| P. P. Kornuta, N. V. Kolotilo, and L. N. Markovskii   | 519 | 590  |
| Reactions of Phosphorus-Containing Disulfides. Reactions of Bis(dialkoxyphosphinyl) Disulfides with Diazomethane                |     |      |
| and Diazoacetic Ester – B. A. Khaskin, O. D. Sheluchenko,   |     |      |
|   | 505 | 507  |
| and N. A. Torgasheva  | 525 | 597  |
| a 3-Coordinate Arsenic Atom - V. I. Gavrilov and F. M. Khusnutdinova  | 528 | 602  |
| Asymmetric Organoarsenic Compounds Containing an As-N Bond.   | 340 | 002  |
| V. Breakage of the As -N Bond under the Action of Alcohols  |     |      |
| F. D. Yambushev, N. Kh. Tenisheva, M. D. Nikiforov,   |     |      |
| G. I. Kokorev, B. G. Fedotov, and Yu. A. Bespalov   | 532 | 607  |
| Preparation of Alkylmagnesium—Alkylaluminum Compounds   | 000 | 001  |
| and Investigation of Their Compositions - N. N. Korneev,  |     |      |
| S. L. Gershkokhen, and G. I. Shcherbakova   | 535 | 610  |
| New (Chloromethyl)-Substituted 1,2-Disilyl-ethylenes  | 333 | 010  |
| and -acetylenes - M. G. Voronkov, T. D. Burnashova,   |     |      |
| and O. G. Yarosh  | 538 | 614  |
| Reactivity of 3-(Tripropylgermyl)propyl Radicals - G. A. Razuvaev,  | 330 | 07.4 |
| T. N. Brevnova, and T. A. Chesnokova  | 541 | 617  |
| Germatranes, III. Synthesis and <sup>1</sup> H and <sup>13</sup> C Spectra of 1-Alkyl-  | 347 | 011  |
| and 1-Aryl-2-carbagermatranes - T. K. Gar, N. Yu. Khromova,   |     |      |
|   | 545 | 622  |
| S. N. Tandura, V. M. Nosova, A. V. Kisin, and V. F. Mironov   | 040 | 022  |
| Synthesis and Some Reactions of Chlorodiorgano(vinyloxy)silanes   | 551 | 600  |
| - N. V. Komarov, E. G. Lisovin, and A. N. Komarov   | 551 | 628  |
|   |     |      |
| XX. Electronic Effects in Chloro- and Amino-arylsilane  |     |      |
| Molecules - Yu. V. Kolodyazhnyi, M. G. Gruntfest,   | 554 | 620  |
| V. K. Dmitrieva, and O. A. Osipov.  | 554 | 632  |
| Thermal Decomposition of Organostilicon Peroxides in Presence   |     |      |
| of Electron Donors - V. V. Gorbatov, N. V. Yablokova,   | 559 | 638  |
| Yu. A. Aleksandrov, and V. P. Kheiderov   | 339 | 699  |
| Synthesis and Properties of Oligoalkylsilasesquioxanes with Large   |     |      |
| Alkyl Substituents and Terminal Trimethylsiloxy Groups  |     |      |
| - P. A. Izmailov and A. A. Zhdanov  | 569 | GAO  |

| Study of Proton-Transfer Processes by the NMR Method Applied  |      |     |
|---|------|-----|
| to Various Nuclei. V. Trifluoroacetic Acid-Dimethyl Sulfoxide System  |      |     |
| - V. G. Khutsishvili, A. I. Serebryanskaya, Yu. S. Bogachev,  |      |     |
| V. M. Kurenkova, N. N. Shapet'ko, and A. I. Shatenshtein  | 566  | 646 |
| Electrochemical Reactions of S-, Se, and Te-Containing Organic<br>Compounds. VII. p-Nitrophenyl Phenylethynyl Sulfide |      |     |
| and Selenide in an Aprotic Medium - Yu. M. Kargin, V. Z. Latypova,  |      |     |
| O. G. Yakovleva, A. A. Vafina, A. N. Ustyugov,  |      |     |
| and A. V. Il'yasov  | 572  | 655 |
| Synthesis and Complex-Forming Properties of Sequestering Agents   |      |     |
| Derived from Diamino Acids. III. (DL-2,3-Diaminopropionic)-N,N'-dimalonic   |      |     |
| Acid. Complex Formation with Alkaline-Earth Metals  |      |     |
| - Yu. M. Kozlov, V. A. Babich, and I. P. Gorelov  | 575  | 658 |
| Synthesis and Complex-Forming Properties of Sequestering Agents   |      |     |
| Derived from Dicarboxylic Acids. VII. (2-Aminobutyric)-N-malonic Acid   |      |     |
| - A. I. Kapustnikov, Yu. M. Kozlov, and I. P. Gorelov   | 578  | 663 |
| Phthalocyanines and Related Compounds. XXI. Tetra-1-phenyl-2,3-naphthalocyanines                                      |      |     |
| -G. I. Goncharova, M. G. Gal'pern,  | 501  | 000 |
| and E. A. Luk'yanets  | 581  | 666 |
| Molecular Polarizability of Organic Compounds and Their Complexes.  |      |     |
| XXI. Steric Structures of H Complexes of Pyrrole and Indole with a Number of Nitrogenous Bases - P. N. Kozachenko,    |      |     |
| S. B. Bulgarevich, D. Ya. Movshovich, V. A. Kogan,  |      |     |
|   | 585  | 670 |
| and O. A. Osipov  | 363  | 010 |
| of Conjugated Alkenynes, Their Functional Derivatives,  |      |     |
| and Silicon-Containing Analogs - N. N. Belyaev, V. Ya. Komarov,   |      |     |
| E. V. Komissarova, and M. D. Stadnichuk   | 592  | 679 |
| Physicochemical Properties of Solutions of Dimsylpotassium and Potassium  |      |     |
| tert-Butoxide in Dimethyl Sulfoxide - I. A. Romanskii   | 597  | 685 |
| Mechanisms of Hydrogen-Exchange Reactions of CH Acids in Solutions  |      |     |
| of Dimsylpotassium and Potassium tert-Butoxide in Dimethyl Sulfoxide  |      |     |
| - I. A. Romanskii   | 602  | 690 |
| Investigation of Solvation Effects with the Use of Data on Enthalpies   |      |     |
| of Solution. Allowance for the Effect of Hole Formation   |      |     |
| - B. N. Solomonov, I. S. Antipin, V. V. Gorbachuk,  |      |     |
| and A. I. Konovalov   | 607  | 696 |
| LETTERS TO THE EDITOR   |      |     |
| Reactions of N,N'-Diaryl-2,2-dichloromalonimidoyl Chlorides   |      |     |
| with Triethyl Phosphite. Method of Synthesizing Substituted   |      |     |
| 2-Quinolylphosphonic Esters - A. F. Shivanyuk, M. O. Lozinskii,   | 41.0 | 704 |
| and V. N. Kalinin   | 613  | 704 |
| Reactions of Diethyl Butyl(2-methylpropenyl)phosphoramidite   |      |     |
| with Carboxylic Acids - T. Kh. Gazizov, A. M. Kibardin,<br>and A. N. Pudovik  | 614  | 706 |
| Synthesis and Reactivities of Seven-Membered Cyclophosphorous Acids   | 014  | 100 |
| with Aromatic Groups - V. V. Oychinnikov, O. A. Cherkasova,   |      |     |
| and L. V. Verizhnikov   | 615  | 707 |
|   | 020  |     |
| New Course in Reactions of Neutral Phosphorus(III) Esters   | ***  |     |
| with Nitro Olefins = R. D. Gareev, G. M. Loginova, and I. M. Shermergorn  | 616  | 708 |
| with Trialkyl Phosphites - L. N. Markovskii, Yu. A. Kopel'tsiv,   |      |     |
| V. T. Kolesníkov, and Yu. G. Shermolovich   | 017  | 700 |
| Formation of Stable Complexes of 9-(Chloromercurio)-o-  | 617  | 709 |
| and -m-carbaboranes with 1,10-Phenanthroline  |      |     |
| - L. I. Zakharkin, I. V. Pisareva, and N. S. Vasil'eva  | 618  | 711 |
| Photocatalytic Addition of Hydrogen Sulfide to Dimethyldivinylsilane:   | 010  |     |
| A New Method for the Synthesis of Heterocycles Containing   |      |     |
| Silicon and Sulfur Atoms - M. G. Voronkov, N. N. Vlasova,   |      |     |
| S. V. Kirpichenko, E. N. Suslova, M. Yu. Adamovich,   |      |     |
| and V. V. Ketko   | 619  | 712 |
| Reactions of $\alpha$ -Silylated Ketals with Halotrimethylsilanes   |      |     |
| - A. G. Shipov, L. I. Livantsova, G. S. Zaitseva, Yu. I. Baukov,  |      |     |
| and I. F. Lutsenko  | 620  | 713 |

Engl./Russ.

- V. A. Yablokov, N. P. Sluchevskaya, N. V. Yablokova,

73Ge and 13C NMR Spectra of Some Tetraalkylgermanes and Their

 893

896

780

| Synthesis and Properties of Heterocyclic Compounds with Si, Ge, and Sn<br>Atoms in the Ring. X. Study of the Complex Formation   |     |     |
|--|-----|-----|
| of Heterocycles with Molecular Oxygen by Means of Electronic Emission Spectroscopy - V. O. Reikhsfel'd, V. A. Kuznetsov,   |     |     |
| I. E. Saratov, A. N. Egorochkin, T. N. Shabrova, A. A. Lavrent'ev,   |     |     |
| and A. A. Simonenko  | 783 | 900 |
| in the Side Chain — Yu. V. Svetkin and Yu. R. Kolesnik Kinetics and Mechanism of the Oxidation of 2-Aryl-2-imidazolines with Verdazylium Bromides — É. A. Ponomareva, V. Kh. Premyslov,                                  | 790 | 907 |
| and L. N. Degtyareva   | 795 | 913 |
| Use of Palladium Complexes as Catalysts in Oxidation with Ozone  | 000 | 010 |
| - V. V. Zamashchikov   | 800 | 918 |
| <ul> <li>I. B. Afanas'ev, N. S. Kupriyanova, and N. I. Polozova</li> <li>π Complexes of Nickel with Monovinylsilanes Stabilized</li> <li>by Triphenylphosphine - F. F. Kayumov, L. S. Isaeva, T. A. Peganova,</li> </ul> | 801 | 919 |
| F. G. Yusupova, and V. P. Yur'ev   | 802 | 920 |
| Preparation of Bis(tributylstannyl)carbodiimide - N. I. Mysin,   | 903 | 021 |
| Yu. I. Dergunov, and V. G. Vodop'yanov   | 803 | 921 |
| silaspiro[5.5]undecane - R. S. Musavirov, E. P. Nedogrei,  | 201 | 001 |
| S. S. Zlot-skii, L. F. Lapuka, E. A. Kantor, and D. L. Rakhmankulov.  Reaction of 1,1-Diphenylsilacyclopent-2-ene with Dinitrogen Tetraoxide  - V. V. Perekalin, V. M. Berestovitskaya, E. V. Trukhin,                   | 804 | 921 |
| N. G. Komalenkova, S. A. Bashkirova, and E. A. Chernyshev Reaction of Ethyl Diphenylphosphinothioite with Chloranil  | 805 | 922 |
| - V. A. Al'fonsov, O. M. Dianova, É. I. Gol'dfarb, É. S. Batyeva, and A. N. Pudovik  | 806 | 924 |
| Synthesis of Heptylbis(5-R-2-thienyl)phosphine Oxides - E. A. Krasil'nikova, A. I. Razumov, and É. S. Sharafieva   | 807 | 925 |
| Reactions of N,N,N'-Tris(trimethylsilyl)phosphenimidous Amide  |     |     |
| and of 2-[Bis(trimethylsilyl)amino]-1,3,2-dioxaphospholane with 2,2,3,3-Tetrafluoropropyl Cyanate - V. D. Romanenko,   |     |     |
| G. I. Volkov, and L. N. Markovskii   | 808 | 926 |
| Reactions of Phosphorus Acid Anhydrides with Acetyl Chloride   |     |     |
| - V. N. Eliseenkov and T. N. Shumilina   | 809 | 927 |
| - P. S. Khokhlov, B. A. Kashemirov, and Yu. A. Strepikheev   | 810 | 929 |
| Phosphorylation of Orthoformates - M. V. Livantsov, V. I. Boiko,   | 911 | 930 |
| M. V. Proskurnina, and I. F. Lutsenko  | 811 | 930 |
| by the Reactions of Phosphoro-chloridites and -dichloridites with N-Benzylideneaniline - N. K. Maidanovich, S. V. Iksanova,  |     |     |
| and Yu. G. Gololobov   | 812 | 930 |
| Formation of Geometric Isomers of (3-Chloro-1-methoxy-4-methyl-2,4-  |     |     |
| pentadien-2-yl)phosphonic Dichloride in Acetylene-Allene-Diene<br>Isomerization - V. K. Brel', B. P. Nosov, B. I. Ionin,   |     |     |
| and A. A. Petrov   | 813 | 932 |
| (Dimethyladamantyl)phosphonous Dichloride: A New Tervalent-Phosphorus  |     |     |
| Acid Chloride — B. I. No, Yu. L. Zotov, and V. N. Karev Synthesis of Diisopropyl (Trifluoromethyl)phosphonite  | 814 | 933 |
| - G. N. Prokof'eva, I. G. Maslennikov, and A. N. Lavrent'ev Alkylating Power of Alkyl(perfluoroalkyl)phosphinates  | 815 | 934 |
| - I. G. Maslennikov, G. N. Prokof'eva, A. N. Lavrent'ev, and M. M. Shcherbaeva   | 816 | 935 |
| Acylphosphoramidite Palladium Complex - É. M. Abbasov, A. T. Teleshev,   | 010 | ,33 |
| M. P. Koroteev, and É. E. Nifant'ev  | 817 | 936 |
| Condensation of aldehydo-Pentoses with Phosphorus Analogs of Carbonyl<br>Compounds — Yu. A. Zhdanov, L. A. Uzlova, and L. M. Maksimushkina .   | 818 | 937 |
| 3,5,6-Trimethylglucofuranose and 3,5-Dimethylxylofuranose  | 010 | 231 |
| 1,2-Cyclophosphites — É. E. Nifant'ev, S. A. Rumyantseva, M. P. Koroteev, Ks. Sisneros, and N. K. Kochetkov  | 819 | 938 |

| PROMOGRANO   |     |      |
|--|-----|------|
| DISCUSSIONS  Correlation of Rate Constants of Substitution Reactions of the S <sub>N</sub> 2 Type  in Terms of Ionization Potentials — M. G. Gubaidullin  System of Structural Coordinates (Dedicated to Yu. V. Baltaikis)                       | 821 | 939  |
| - I. D. Fainerman  | 823 | 942  |
|  |     |      |
| Volume 52, Number 5, Part 1 May, 1982  |     |      |
| Influence of the Nature of Trialkylammonium Salt Additives on the Electroreduction of Aromatic Esters - L. S. Reishakhrit  |     |      |
| and T. B. Argova   | 829 | 953  |
| and G. M. Savel'eva  | 833 | 957  |
| and V. B. Piskov   | 836 | 961  |
| II. 5-Substituted 2-Furaldehydes - A. P. Shkumat, V. K. Polyakov, and S. V. Tsukerman  | 841 | 967  |
| - I. B. Afanas'ev and N. G. Baranova   | 846 | 972  |
| in an Alkaline Medium — A. E. Myshkin and G. K. Chudinova  Investigation of Electronic Effects Operating in Molecules of Methylphenyl Derivatives of Elements of Groups VA and VIA   | 852 | 979  |
| by Deuterium-Exchange and Spectroscopic Methods — I. F. Tupitsyn .  Application of the Deuterium-Exchange Method for the Study of the  Transmission Power of S, SO, and SO2 "Bridges" in Mono- and Di-nuclear Sulfur-Containing Aromatic Systems | 858 | 986  |
| - I. F. Tupitsyn and N. N. Zatsepina   | 865 | 994  |
| L. Novotny, and V. D. Bezuglyi   | 874 | 1005 |
| O. Yu. Kargina, V. I. Morozov, A. Ya. Aizikovich, and K. I. Pashkevich   | 877 | 1008 |
| Reactions of the Oxygen Radical Anion with Fluorinated 2-Aminovinyl Ketones — G. K. Budnikov and O. Yu. Kargina  | 881 | 1012 |
| 2-Acylvinylation of Sulfur-Containing Pyrines — M. A. Anufriev,<br>E. V. Ratsino, L. M. Elagin, L. B. Sokolov, and E. V. Komarov   | 884 | 1015 |
| Indium(I) Sulfate: Its Synthesis and Properties  - L. F. Kozin and A. G. Egorova  Reactions of Trimethyl Phosphite with p-(Dimethylamino)benzylidene   | 888 | 1020 |
| Derivatives of Mono- and Di-carbonyl Compounds - B. A. Arbuzov, N. A. Polezhaeva, R. T. Galiaskarova, A. V. Aganov,  |     |      |
| and A. I. Khayarov   | 892 | 1024 |
| <ul> <li>A. N. Pudovik, G. V. Romanov, and V. N. Volkova</li> <li>σ<sup>Φ</sup> Constants of Cyclic Fragments of Phosphorimidic Compounds</li> <li>M. I. Kabachnik, N. A. Tikhonina, V. A. Gilyarov,</li> </ul>                                  | 896 | 1029 |
| B. A. Korolev, M. A. Pudovik, L. K. Kibardina, and A. N. Pudovik .  Reactions of Phosphorylated Allenes with Sulfenyl Chlorides  — N. G. Khusainova, L. V. Naumova, E. A. Berdnikov,   | 899 | 1033 |
| and A. N. Pudovik  | 904 | 1040 |
| A. B. Remizov, N. G. Khusainova, L. V. Naumova, and A. N. Pudovik.   | 909 | 1045 |

| 2-Alkoxy- and 2-(Dialkylamino)-1,3,2-dioxaphospholenes  |       |      |
|---|-------|------|
| - T. N. Kudryavtseva, N. B. Karlstédt, M. V. Proskurnina,   |       |      |
| N. V. Boganova, T. G. Shestakova, and I. F. Lutsenko  | 912   | 1049 |
| - V. L. Foss, P. L. Kukhmisterov, and I. F. Lutsenko  | 916   | 1054 |
| Rearrangements of Phosphinothious Thioanhydrides and the Isomeric Tetraalkyldiphosphine Monosulfides — V. L. Foss,  | 720   |      |
| P. L. Khukhmisterov, and I. F. Lutsenko   | 924   | 1063 |
| Radical Isomerization of Hydride Phosphoranes - L. Z. Rol'nik,  |       |      |
| M. V. Proskurnina, T. N. Kudryavtseva, E. V. Pastushenko,<br>S. S. Zlot-skii, D. L. Rakhmankulov, and I. F. Lutsenko  | 928   | 1067 |
| (2,2-Dicyanovinyl)phosphorimidic Trichlorides by the CNDO/2   |       |      |
| Method — A. S. Tarasevich, V. E. Didkovskii, I. E. Boldeskul, and V. P. Kukhar'   | 930   | 1070 |
| Vibrational Spectra and Structure of Tetrachloro(trichloromethyl)-<br>phosphorane — É. S. Kozlov and I. E. Boldeskul  | 936   | 1077 |
| phosphorate as as noziov and is a boldegraff s  | , , , | 10// |
| Volume 52, Number 5, Part 2 May, 1982   |       |      |
| Phosphorylation of P,P,P-Triphenylphosphine Imide. II   |       |      |
| - V. A. Zasorina, A. S. Shtepanek,  |       |      |
| and A. M. Pinchuk   | 941   | 1081 |
| Containing a Mobile Hydrogen Atom — O. I. Kolodyazhnyi  | 946   | 1086 |
| and A. M. Pinchuk   | 952   | 1092 |
| Diad Phosphorus—Carbon Tautomerism: [(Diphenylphosphoranylidene)tosylmethyl]triphenylphosphonium Chloride — I. M. Aladzheva, O. V. Bykhovskaya, P. V. Petrovskii, |       |      |
| and T. A. Mastryukova   | 955   | 1095 |
| Phenophosphazines. VI. Synthesis of Compounds Containing 3-(Dimethylamino)propyl Groups - N. I. Demidova, A. I. Bokanov,  |       |      |
| O. S. Medvedev, and B. I. Stepanov  | 958   | 1099 |
| Reactions of [(Hydroxyalkyl)-amino and -hydrazino]-s-triazines with Phosphor-isocyanatidates and -isocyanatidothioates - 0. A. Kulikova, L. V. Razvodovskaya,     |       |      |
| and N. N. Mel'nikov   | 962   | 1103 |
| Phosphorus-Containing s-Triazinylureas - 0. A. Kulikova,<br>L. V. Razvodovskaya, N. N. Mel'nikov,   |       |      |
| and V. V. Negrebetskii  | 967   | 1108 |
| Organophosphorus Derivatives of Some N-Substituted Lactams  | 077   | 1112 |
| - N. P. Grechkin and L. N. Grishina   | 971   | 1113 |
| 5-Coordinate-Phosphorus Chlorides - S. V. Fridland and L. I. Lapteva  | 974   | 1116 |
| Azlactones of [1-(Acylamino)-2,2-dichlorovinyl]phosphonochloridic   |       |      |
| Acids - 0. P. Lobanov and B. S. Drach   | 980   | 1122 |
| Iodide - V. I. Gavrilov and R. R. Rakhmatullin  | 989   | 1131 |
| Kinetic Relations in Reactions of Alkyl and Aralkyl Hydroperoxides with Triorganoboranes - V. N. Alyasov, I. Yu. Kuznetsov,                                       |       |      |
| V. P. Maslennikov, and Yu. A. Aleksandrov   | 992   | 1134 |
| a Boron-Oxygen Bond - V. N. Alyasov, V. P. Maslennikov,<br>Yu. A. Aleksandrov, and I. Yu. Kuznetsov   | 996   | 1139 |
| Complex-Formation Reactions of Organoboron Compounds. XX. Complex Formation of Triarylboranes with Antipyrine   |       |      |
| - G. A. Yuzhakova, M. I. Belonovich, M. N. Rybakova,  |       |      |
| T. L. Morozova, and I. I. Lapkin  | 1003  | 1146 |

| Decomposition of Organometallic Compounds in a Flash Electric Discharge.  I. Alkyl Compounds of Group II and IV Elements. Organodimetal Compounds Containing Group II and IV Elements |      |       |
|---|------|-------|
| - A. M. Ob"edkov, B. V. Zhuk, G. A. Domrachev, V. T. Bychkov,   |      |       |
| and I. V. Lomakova  | 1006 | 1149  |
| Synthesis and Structure of Aromatic and Heterocyclic Tellurium Compounds.  XXI. Molecular Polarizability and Conformation of Diaryldibromo-   |      |       |
| and Diaryldifluoro-telluranes - A. P. Timosheva, S. G. Vul'fson,  |      |       |
| A. N. Vereshchagin, I. D. Sadekov, and V. I. Minkin   | 1013 | 1156  |
| Synthesis and Reactions of 3-(Benzyldimethylsily1)-2-propyn-1-ol  |      |       |
| - S. F. Karaev, R. M. Kuliev, Sh. O. Guseinov, M. É. Askerov,   |      |       |
| and M. M. Movsumzade  | 1016 | 1160  |
| Synthesis and Properties of Silazanes with m-(Trifluoromethyl)phenyl  |      |       |
| Substituents on the Silicon Atoms - I. V. Sevast'yanova, Yu. A. Larionova, A. L. Klebanskii,  |      |       |
| and A. I. Ponomarev   | 1019 | 1163  |
| Reactions of Silacyclopent-3-enes with Dinitrogen   | 1017 | 1103  |
| Tetroxide - E. V. Trukhin, V. M. Berestovitskaya,   |      |       |
| and V. V. Perekalin   | 1022 | 1167  |
| Organometallic Derivatives of Sulfur-Containing Heterocycles. X.  |      |       |
| Dehydrocondensation of 2,2'-(Methylsilylene)bisthiophene  |      |       |
| with Carboxylic Acids - E. Lukevits and M. Dzintara   | 1031 | 1176  |
| Organometallic Derivatives of Furan. XXX. Organosilicon Derivatives   |      |       |
| of 2,3-Dihydrofuran - N. P. Erchak, Yu. Yu. Popelis, J. Pichler, and É. Lukevits  | 1035 | 1181  |
| Unsymmetric Organotin Complexes of Praseodymium   | 2033 | 1101  |
| - E. A. Fedorova, G. S. Kalinina, M. N. Bochkarev,  |      |       |
| and G. A. Razuvaev  | 1041 | 1187  |
| Synthesis of Bis(organometal) Oxides of Tin, Germanium, and Silicon   |      |       |
| and Their Reactions with Benzenesulfonyl Isocyanate   |      |       |
| - N. I. Mysin, Yu. I. Dergunov, V. G. Vodop'yanov, V. F. Gerega,  | 10// | 1100  |
| and N. N. Yurkova   | 1044 | 1190  |
| Polystyrene - M. V. Sidorova, G. A. Zheltukhina, U. O. Kalei,   |      |       |
| G. I. Aukone, E. I. Filippovich, and R. P. Evstigneeva  | 1047 | 1194  |
| Natural Peptides and Their Analogs. XXVI. Synthesis and Properties  |      |       |
| of L-Pyroglutamyl-L-histodyl-glycine - Yu. P. Shvachkin,  |      |       |
| A. P. Smirnova, V. P. Fedotov, and G. I. Bushueva   | 1054 | 1202  |
| LETTERS TO THE EDITOR   |      |       |
| Stable Trifluoroacetyl Phosphite - I. V. Konovalova, V. F. Mironov,   |      |       |
| E. N. Ofitserov, and A. N. Pudovik  | 1058 | 1206  |
| Electrochemical Fluorination of Phosphoramidites  |      |       |
| - E. V. Nikitin, Yu. A. Ignat'ev, A. S. Romakhin, O. V. Parakin,  |      |       |
| G. V. Romanov, Yu. M. Kargin, and A. N. Pudovik   | 1059 | 1207  |
| Photochemical Addition of Hydrogen Sulfide to Ethynylbenzene  |      |       |
| and to Ethynyltriorganosilanes - M. G. Voronkov, G. Yu. Zhila, O. G. Yarosh, A. I. Albanov, and N. N. Vlasova   | 1060 | 1207  |
| o. G. farosh, A. I. Albanov, and N. N. Viasova  | 1000 | 1207  |
|   |      |       |
|   |      |       |
| Volume 52, Number 6, Part 1 June, 1982  |      |       |
|   |      |       |
| Thermal Behavior of Rubidium and Cesium Hydrogen Diformates   |      |       |
| - B. M. Nirsha, A. D. Chubinidze, Yu. A. Velikodnyi,  | 1000 | 1 200 |
| B. V. Zhadanov, and V. A. Olikova   | 1063 | 1209  |
| Solubility of Indium Monochloride in Potassium Nitrate Solutions - L. F. Kozin, A. G. Egorova, and A. N. Nefedov  | 1067 | 1214  |
| Interaction of Chromyl Chloride with Diamond Preparations   | 1007 | 1214  |
| - S. K. Gordeev and E. P. Smirnov   | 1071 | 1218  |
| Thermodynamic Characteristics of the Dissociation of Some Halophenols   |      |       |
| in Dimethyl Sulfoxide - V. S. Pilyugin, Yu. I. Umanskii,  |      |       |
| S. V. Vasin, S. L. Smirnova, and L. Ya. Khrustaleva   | 1073 | 1220  |
| Mixed-Ligand Hexaamminechromium(III) Salts - Yu. N. Shevchenko,   | 1076 | 100/  |
| V. V. Sachok, and V. Ya. Dudarev  | 1076 | 1224  |
| Organophosphorus Extractants on Their Extracting Power  |      |       |
| toward Uranium(VI) and Cerium(III) — A. M. Rozen and V. G. Yurkin .   | 1083 | 1232  |

| Influence of the Introduction of Sulfur into Molecules of Acid   |      |      |
|--|------|------|
| Organophosphorus Extractants on Their Extracting Power toward Uranium(VI) and Cerium(III) — A. M. Rozen  |      |      |
| and V. G. Yurkin   | 1086 | 1235 |
| Temperature Dependence of the 15 N Chemical Shift and the Specific   |      |      |
| Solvation of Some Amines and Oximes - A. G. Ivanenko   | 1088 | 1237 |
| Role of Various Structural Elements of Molecules in Changes<br>of Electronic Conductivity of Binuclear Aromatic Compounds  |      |      |
| of the Types p- and m-RC <sub>6</sub> H <sub>4</sub> COC <sub>6</sub> H <sub>4</sub> CH <sub>3</sub> and p- and m-RC <sub>6</sub> H <sub>4</sub> NNC <sub>6</sub> H <sub>4</sub> CH <sub>3</sub> |      |      |
| - I. F. Tupitsyn, N. N. Zatsepina, and A. A. Kane  | 1096 | 1246 |
| Oxidation of Triphenylphosphine in Presence of Transition-Metal  | 1105 | 1057 |
| Compounds - V. P. Fedin and I. B. Romanova   | 1105 | 1257 |
| - Yu. G. Gololobov, N. I. Gusar', and L. V. Randina  | 1108 | 1260 |
| Structure of Acylated and Benzoylated Derivatives of Phosphonoacetic   |      |      |
| Trimethyl Ester - V. G. Sakhibullina, N. A. Polezhaeva,  |      |      |
| and B. A. Arbuzov  | 1112 | 1265 |
| - R. D. Gareev, A. V. Il'yasov, Ya. A. Levin, É. I. Gol'dfarb,   |      |      |
| V. I. Morozov, G. M. Loginova, I. M. Shermergorn,  |      |      |
| and A. N. Pudovik  | 1116 | 1270 |
| Reactions of Alkyl Diphenylphosphinites with 1-Nitro-1-alkenes   |      |      |
| - R. D. Gareev, A. V. Il'yasov, Ya. A. Levin, É. I. Gol'dfarb, V. I. Morozov, I. M. Shermergorn, and A. N. Pudovik   | 1123 | 1278 |
|  |      |      |
| Reactions of Dimethyl and Alkylene Phosphor-isocyanatidites and<br>-isothiocyanatidites with Alkylidenecyanoacetic Esters and  |      |      |
| 3-Ethylidene-2,4-pentanedione - I. V. Konovalova, N. V. Mikhailova,  |      |      |
| L. A. Burnaeva, and A. N. Pudovik  | 1134 | 1290 |
| Reactions of (Diphenylmethylene) - and (Ethoxyphenylmethylene) - phosphoramidites with Propadienylphosphonates - N. G. Khusainova,   |      |      |
| Z. A. Bredikhina, and A. N. Pudovik  | 1139 | 1296 |
| Alcoholysis Reactions in Dihydro-1,3,2-benzodiheteraphosphole Series   | 2233 |      |
| - M. A. Pudovik, S. A. Terent'eva, Yu. B. Mikhailov,   |      |      |
| and A. N. Pudovik  | 1144 | 1302 |
| cis and trans Isomers of Rh(I) Complexes of 2-Amino-1,3,2-<br>dioxaphosphorinanes — G. M. Grishina, A. T. Teleshev,  |      |      |
| and É. E. Nifant'ev  | 1149 | 1307 |
| Spectroscopic Investigation of Intramolecular Effects in [1-(Substituted   |      |      |
| Imino)alkyl]phosphorimidic Trichlorides — A. A. Kisilenko,   | 1152 | 1211 |
| A. P. Boiko, V. P. Kukhar', and S. I. Vdovenko   | 1153 | 1311 |
| Sulfonic, and Phosphoric Acids - 0. I. Kolodyazhnyi  | 1156 | 1314 |
| Reactions of Chlorophosphonium Compounds with Halide Ions  |      |      |
| - V. N. Vengel'nikova, B. V. Timokhin, A. V. Kalabina,   |      |      |
| and V. I. Donskikh   | 1160 | 1318 |
| with Phosphorus Dithio Acids - V. V. Ovchinnikov,  |      |      |
| A. R. Garifzyanov, V. F. Toropova, and R. A. Cherkasov   | 1164 | 1323 |
|  |      |      |
|  |      |      |
| Volume 52, Number 6, Part 2 June, 1982   |      |      |
|  |      |      |
| Composition of Products of the Ethanolysis of Triethylaluminum - A. I. Belokon', N. N. Khromykh, N. T. Ivanova,  |      |      |
| A. V. Mikhalev, and V. N. Bochkarev  | 1167 | 1325 |
| New Method for the Synthesis of Ketones by the Reactions   |      |      |
| of 8-(Acyloxy)quinolines with Organoaluminum   |      |      |
| Compounds - G. A. Tolstikov, F. Kh. Valitov, and A. V. Kuchin  | 1170 | 1328 |
| Synthesis of the O-[Bis(n-cyclopentadienyl)vanadium]   |      | 2320 |
| Derivative of the Iminol Form of Diallyl Isocyanurate  |      |      |
| - G. A. Razuvaev, A. S. Gordetsov, V. N. Latyaeva,   | 1175 | 122/ |
| V. V. Pereshein, O. S. Morozov, and Yu. I. Dergunov<br>Some Reactions of Biyalent Titanium and Zirconium   | 1175 | 1334 |
| Compounds - G. A. Razuvaev, L. I. Vyshinskaya,   |      |      |
| G A Vacil'ava A V Malysheva A. M. Rabinovich   | 1178 | 1338 |

| Decomposition of Orangometallic Compounds in a Flash  |      |      |
|---|------|------|
| Electric Discharge. II. Organochromium Compounds  |      |      |
| - A. M. Ob"edkov, B. V. Zhuk, and G. A. Domrachev   | 1184 | 1345 |
| Reactions of Triorganosiloxy Derivatives of Zinc  |      |      |
| and Cadmium with Dicarboxylic Acid Anhydrides   |      |      |
| and with Olefin Epoxides - T. R. Shnol', Yu. N. Krasnov, R. F. Galiullina, V. A. Alferov, V. V. Kutsovskaya,  |      |      |
| and V. A. Dodonov   | 1189 | 1351 |
| Polarographic Investigation of the Mechanism of the Electroreduction  | 1107 | -,   |
| of Ni(II) Ions Catalyzed by Pyridine and Nicotine   |      |      |
| - Ya. I. Tur'yan and I. I. Moskatov   | 1194 | 1355 |
| Free Radical Derivatives of 3,5-Di-tert-butyl-4-Hydroxy-N-  |      |      |
| phenylbenzohydroxamic Acid and Its Metal Complexes  |      |      |
| - D. N. Vovk, A. V. Melezhik, and V. D. Pokhodenko  | 1201 | 1363 |
| Thermal Transformations of Isomeric Mixed-Ligand  |      |      |
| Hexaamminechromium(III) Salts in Air and in an Atmosphere of Helium — Yu. N. Shevchenko and V. V. Sachok  | 1206 | 1368 |
| Structure, Properties, and Reactions of Chelates Formed   | 1200 | 1300 |
| in the Reactions of Cinnamic Acid with Pyrogallol   |      |      |
| and Its Mono- and Di-methyl Ethers in Presence of BF,   |      |      |
| - S. P. Starkov, N. L. Polyanskaya, and M. N. Volkotrub   | 1214 | 1377 |
| Synthesis of Ionic Complexes of Praseodymium Containing   |      |      |
| Polynuclear Anions by the Hydride Method - L. N. Bochkarev,   |      |      |
| Yu. F. Rad'kov, G. S. Kalinina, M. N. Bochkarev,  |      |      |
| and G. A. Razuvaev  | 1217 | 1381 |
| Reactions of Organosilicon Compounds Containing N-Si Bond   |      |      |
| with Formaldehyde - V. P. Kozyukov, Vik. P. Kozyukov,   |      |      |
| and V. F. Mironov   | 1222 | 1386 |
| Use of Organosilicon Compounds in the Synthesis of Cyclic Acetals   |      |      |
| - R. S. Musavirov, E. P. Nedogrei, V. I. Larionov,  | 1000 |      |
| S. S. Zlot-skii, E. A. Kantor, and D. L. Rakhmankulov   | 1229 | 1394 |
| Manifestation of Geminal Interaction in the 13C NMR Spectra   |      |      |
| of Compounds of the Series (CH <sub>2</sub> ) <sub>2</sub> SiO(CH <sub>2</sub> ) <sub>n</sub> H<br>— V. P. Feshin, L. D. Lhamaganova, M. G. Voronkov, |      |      |
| E. I. Dubinskaya, V. G. Komarov, Ya. B. Yasman,   |      |      |
| and R. A. Kuramshin   | 1236 | 1401 |
| Influence of the Polarity of the Medium on the Kinetic  |      |      |
| and Activation Parameters of the Ozonolysis   |      |      |
| of Hexaethyldisilane and Methyldipropylsilane   |      |      |
| - B. I. Tarunin, N. N. Seliverstov, and Yu. A. Aleksandrov  | 1239 | 1404 |
| Factors Influencing the Results of the Reactions of Trialkylstannyl   |      |      |
| Derivatives of Alkali Metals with Isopropenylacetylene  |      |      |
| (2-Methyl-1-buten-3-yne) - Yu. G. Lifanov, T. P. Zubova, V. S. Zavgorodnii, and A. A. Petrov  | 1243 | 1408 |
| Enthalpy of Formation of Complexes of Sulfur Trioxide   | 1243 | 1400 |
| with n Donors - E. N. Gur'yanova, E. S. Isaeva,   |      |      |
| Z. A. Evseeva, and V. A. Terent'ev  | 1249 | 1415 |
| Peculiar Features of the Thermal Decomposition of Oligoperoxides  |      |      |
| Containing Peroxy Ester and Diacyl Peroxide Groups  |      |      |
| - S. S. Ivanchev, L. R. Uvarova, and M. S. Matveentseva   | 1252 | 1418 |
| Electron-Donor Properties of Glycolide - I. P. Romm,  |      |      |
| R. R. Shifrina, E. N. Gur'yanova, V. S. Livshits,   |      |      |
| and L. A. Ganyushin   | 1258 | 1425 |
| LETTERS TO THE EDITOR   |      |      |
| Formation of G-Aryl Complexes of Platinum(IV) in the Reactions  |      |      |
| of HaPtCle with Phenylboronic Acid and with the Tetraphenylborate   |      |      |
| Ion. Arylation of Olefins with Phenyl Derivatives   | 1060 |      |
| of Boron - G. B. Shul'pin, P. Lederer, and G. V. Nizova   | 1262 | 1428 |
| Conjugated Abramov and Michaelis-Becker Reactions - L. V. Nesterov, N. E. Krepysheva, and A. A. Martynov  | 1263 | 1429 |
| Reactions of a-Nitro Olefins with Phosphorus Pentachloride  | 2203 | 4443 |
| - R. Z. Fakhrutdinov, L. E. Ryabova, F. G. Nasybullina,   |      |      |
| T. A. Arkhipova, and M. S. Pochunskaya  | 1264 | 1430 |
| Addition of Dialkyl Phosphoriodidites with Ynic Ethers - I. L. Rodionov,  |      |      |
| M. A. Kazankova, E. N. Tsvetkov, and I. F. Lutsenko   | 1265 | 1431 |
| Addition of Phosphorus Trihalides to Metalated YNIC Ethers  |      |      |
| - E. V. Luzikova, M. A. Kazankova, and I. F. Lutsenko   | 1266 | 1431 |

|  | Engl./I | Russ. |
|--|---------|-------|
| Isomerization of 2-Propynyl Esters of Unsaturated  |         |       |
| Phosphonous Acids - T. N. Belyaeva, A. V. Dogadina,  |         |       |
| B. I. Ionin, and A. A. Petrov  | 1267    | 1432  |
| Phosphorylated Cyclic Ortho Esters - M. B. Gazizov,  |         |       |
| I. I. Galiullina, E. A. Krasil'nikova, and E. V. Rodintseva  | 1268    | 1434  |
| 2-Methyl 4-Phosphorylated 1,3-Dioxolanes - M. B. Gazizov,  | 1060    |       |
| I. I. Galiullina, E. A. Krasil'nikova, and E. V. Rodintseva Nucleophilic Phosphorylation of 1,3,5-Tribromo-2,4,6-trinitrobenzene                                       | 1269    | 1434  |
| with Triethyl Phosphite - P. P. Onys'ko, N. V. Proklina,   |         |       |
| and Yu. G. Gololobov   | 1270    | 1435  |
| Reactions of Hydrazine with α-(Diphenylphosphinyl)-ω-  |         |       |
| phenylalkanoic Esters - R. K. Ismagilov, A. I. Razumov,  | 1071    |       |
| and T. A. Bezborodova  | 1271    | 1436  |
| New Synthesis of Phosphorylated Azoles - V. S. Brovarets, O. P. Lobanov, and B. S. Drach   | 1272    | 1438  |
|  | 22/2    | 1430  |
| Substituted Zinc Phthalocyanines, Sensitizers  |         |       |
| for the Photoreduction of Methylviologen - L. M. Gurdzhiyan, V. M. Derkacheva, A. V. Butenin,  |         |       |
| O. L. Kaliya, and E. A. Luk'yanets   | 1273    | 1439  |
|  | 12/3    | 2433  |
| Volume 52, Number 7, Part 1 July, 1982   |         |       |
|  |         |       |
| Preparation of Phosphorylated Benzimidazoles – G. L. Matevosyan and P. M. Zavlin Reactions of Vanadium Ions with $\alpha$ -Dioximes – M. F. Grigorieva, N. I. Slesari, | 1275    | 1441  |
| and I. A. Tserkovnitskaya  | 1286    | 1454  |
| Complex Formation of Vanadium in Different Degrees of Oxidation  |         |       |
| with Benzohydroxamic Acid - M. F. Grigor'eva, N. I. Slesar',   |         |       |
| and I. A. Tserkovnitskaya  | 1289    | 1458  |
| Investigation of the Influence of Temperature on the Dissociation of LiI in Higher   |         |       |
| Alcohols by the Conductivity Method - I. N. V'yunnik, V. I. Bulavin,   | 1292    | 1461  |
| and A. M. Shkodin.  Interaction of Titanium Tetrachloride with Diamond Preparations - S. K. Gordeev  | 1292    | 1461  |
| and E. P. Smirnov  | 1294    | 1464  |
| Synthesis of Hydroxyl-Titanium-Carbon Solid Compounds on Diamond   | 2201    | 2.00  |
| by the Molecular-Stratification Method - S. K. Gordeev, E. P. Smirnov,   |         |       |
| and S. I. Kol'tsov   | 1298    | 1468  |
| Thermochemistry of the Protonation of Thiourea - V. P. Vasil'ev, O. G. Raskova,  |         |       |
| N. K. Degtyareva, and A. V. Katrovtseva  | 1300    | 1470  |
| New Method for the Calculation of Thermodynamic Parameters of the Formation  |         |       |
| of Charge-Transfer Complexes - V. D. Kiselev and A. I. Konovalov   | 1303    | 1474  |
| Reaction of Diphenylphosphinous Chloride with 1-Nitropropene - R. D. Gareev,   |         |       |
| Ya. A. Levin, É. I. Gol'dfarb, I. M Shermergorn, and A. N. Pudovik.  | 1306    | 1477  |
| Reactions of 2-(Silylamino)-1,3,2-oxazaphospholidines with Alcohols and Phenols  | 1210    | 1401  |
| - M. A. Pudovik, L. K. Kibardina, and A. N. Pudovik  | 1310    | 1401  |
| Reactions of Cyclic Derivatives of Phosphono-acetonitrile and -acetic Ester  |         |       |
| with 2H-Hexamethyldisi lazane - V. V. Ovchinnikov, V. M. Valitova,   |         |       |
| É. G. Yarkova, R. A. Cherkasov, and A. N. Pudovik  | 1314    | 1487  |
| Reaction of Methylenephosphoramidites with Diethyl   |         |       |
| (2,2,2-Trichloroethylidene)phosphoramidate   |         |       |
| and with N-(2,2,2-Trichloroethylidene)acetamide - I. V. Konovalova,  |         |       |
| R. D. Gareev, É. G. Yarkova, L. A. Burnaeva, M. V. Cherkina,   |         |       |
| N. M. Aleksanina, and A. N. Pudovik  | 1318    | 1491  |
| Tautomeric Migrations of Phosphoryl (Imidophosphoryl) Groups in the Amidine  |         |       |
| Triad - V. V. Negrebetskii, L. Ya. Bogel'fer, A. D. Sinitsa, V. I. Kal'chenko,   | 1.00.0  | 1400  |
| V. S. Krishtal', and L. N. Markovskii.   | 1322    | 1496  |
| 1.2,3,4-Tetrahydro-1,2,4,5,3-tetrazaphosphorin-1-yl Amons - P. P. Kornuta,   | 1330    | 1506  |
| V. N. Bobkov, O. M. Polumbrik, and L. N. Markovskii  | 1000    | 2000  |
| - T. V. Kolodka, M. I. Povolotskii, and Yu. G. Gololobov   | 1336    | 1511  |
| 1. ). AUTOMA, Pt. I. I VIVIOLOMI, MINE IN. U. UVIVIOUVI  |         | -     |

|  | Engl. | /Russ. |
|--|-------|--------|
|  |       |        |
| Spectral Investigation of the Conformational Composition of and Intramolecular                   |       |        |
| Interactions in Aryl Vinyl Ether Molecules - T. I. Rozova. G. V. Ratovskii.                      |       |        |
| D. D. Chuvashev, and A. V. Kalabina  | 1343  | 1520   |
| Synthesis, Structure, and Properties of the Compound of Composition (CeH5PS)3                    |       | 3.500  |
| - N. A. Andreev, O. N. Grishina, and K. M. Enikeev   | 1352  | 1530   |
| Phosphine Oxide - Ylide Prototropy. II. Ylides with an OH Group on Phosphorus                    | 1000  | 1500   |
| - O. I. Kolodyazhnyi   | 1358  | 1538   |
| Vinyl Esters of Phosphorus Acids. XXII. Steric Effects in the Inhibition                         |       |        |
| of the Acetylcholinesterase of Warm-Blooded Animals and Insects                                  |       |        |
| by 2,2-Dichlorovinyl Phosphonates - G. V. Pesitskaya, T. V. Kim.                                 | 1000  | 1544   |
| E. I. Kiseleva, V. S. Petrenko, L. F. Kasukhin, and Yu. G. Gololobov                             | 1363  | 1544   |
| Heterocycles: $\Delta^4$ -1,3,2-Oxazaphospholines - I. E. Boldeskul,                             |       |        |
| A. S. Tarasevich, M. Yu. Antipin, Yu. T. Struchkov, and Yu. V. Balitskii                         | 1368  | 1549   |
| Steric Structure and Electronic Effects of Phosphorus-Containing Derivatives                     | 1300  | 1343   |
| of Dihydro-p-dioxin - A. V. Chernova, R. R. Shagidullin, G. M. Doroshkina,                       |       |        |
| I. V. Tsivunina, V. G. Zaripova, S. Kh. Nurtdinov, and V. K. Khairullin                          | 1372  | 1554   |
| Electrophilic Reactions of Halides of Group VI Elements. VI. Addition                            | 13/2  | 1004   |
| of Selenium Tetrachloride and Tetrabromide to Allyl Halides - Yu. V. Migalina,                   |       |        |
|  | 1376  | 1559   |
| S. V. Galla-Bobik, I. I. Ershova, and V. I. Staninets  | 1310  | 1333   |
|  |       |        |
| of Selenium Tetrahalides with Styrene and Its $\beta$ -Substituted Derivatives                   | 1200  | 1562   |
| - Yu. V. Migalina, S. V. Galla-Bobik, V. G. Lendel, and V. I. Stammets                           | 1380  | 1563   |
| Volume 52, Number 7, Part 2 July, 1982   |       |        |
| Ionic Association of Onium Salts in Solution. XVI. Electric                                      |       |        |
| Conductivity of Adducts of Arylarsonic Acids   |       |        |
| with Aliphatic Amines in Water, DMF, and DMSO  |       |        |
| - V. M. Tsentovskii, V. S. Gamayurova, and M. A. Krylova   | 1383  | 1567   |
| Synthesis and Reactions of Dicyclopentadienyldi-2-thienyltitanium                                |       |        |
| - Yu. A. Ol'dekop and V. A. Knizhnikov   | 1387  | 1571   |
| Thermal Decomposition of Tris(tert-butyldioxy)gallium  |       |        |
| in Media of Saturated and Unsaturated Organic  |       |        |
| Compounds - Yu. A. Aleksandrov, G. I. Makin,   |       |        |
| V. E. Lelekov, V. A. Sokolova, L. M. Mazanova,   | 1 200 |        |
| and Yu. D. Semchikov   | 1390  | 1575   |
| Interposition of Phosphine Complexes of Metals of the Nickel                                     |       |        |
| Subgroup in a Bond between Germanium and a Metal   |       |        |
| of Group IIB - S. N. Titova, V. T. Bychkov,<br>G. A. Domrachev, Yu. A. Sorokin, T. N. Konkina,   |       |        |
| and G. A. Razuvaev   | 1396  | 1580   |
| Hydrolytic Polycondensation of Trichlorovinylsilane  | 1330  | 1300   |
| - T. N. Martynova and V. P. Korchkov   | 1400  | 1585   |
| Effects of Mechanical Treatments of a Toluene Solution   | 1     |        |
| of Polydimethylphenylsiloxane - G. S. Buslaev,   |       |        |
| G. T. Dmitrieva, and N. P. Kharitonov  | 1405  | 1591   |
| 3-(Trichlorogermyl)-Substituted Carboxamides: New Compounds                                      |       |        |
| with Intramolecular Coordination - T. K. Gar,  |       |        |
| N. A. Viktorov, V. F. Mironov, S. N. Gurkova,  |       |        |
| A. I. Gusev, D. A. Ivashchenko, V. S. Nikitin,   |       |        |
| N. V. Alekseev, and V. P. Feshin   | 1407  | 1593   |
| Reactions of Free Methyl Cations with Some Alkoxysilanes   |       |        |
| - V. D. Nefedov, T. A. Kochina, E. N. Sinotova,  |       | 1500   |
| and N. P. Kharitonov   | 1413  | 1599   |
| Synthesis of 1-(Trimethylsily1)- and 1-(Trimethylgermy1)-  |       |        |
| 3-R <sup>1</sup> -3-R <sup>2</sup> -cyclopropenes - N. I. Yakushkina,                            |       |        |
| G. R. Zhurina, L. S. Surmina, Yu. K. Grishin, D. V. Bazhenov, V. V. Plemenkov, and I. G. Bolesov | 1417  | 1604   |
| Thermodynamic Characteristics of the Formation of Complexes                                      | 141/  | 2304   |
| between Selenoanisoles and Iodine - I. G. Gazizov  |       |        |
| and G. A. Chmutova   | 1420  | 1607   |
|  |       |        |

| Calorimetric Investigation of the Kinetics of Catalytic<br>Reactions of the Formation of Carbamic Esters                     |      |      |
|--|------|------|
| - N. V. Varentsova, I. P. Gol'dshtein, I. E. Paleeva,  |      |      |
| O. G. Tarakanov, and E. N. Gur'yanova  | 1424 | 1612 |
| Molecular Polarizability of Organic Compounds and Their Complexes.  XXII. Field Scheme for the Calculation of Polarizability |      |      |
| Tensors of Polyatomic Molecules - D. Ya. Movshovich,   |      |      |
| S. B. Bulgarevich, S. E. Filippov, and O. A. Osipov  | 1432 | 1620 |
| Nucleophilic Addition of 2-Pyrimidinethiol to Acetylene  |      |      |
| and Its Derivatives - G. G. Skvortsova, Z. V. Stepanova,   |      |      |
| L. V. Andriyankova, and V. K. Voronov  | 1436 | 1625 |
| Interaction of Quercetin and Morin with Pb(II)   |      |      |
| in Aqueous—Ethanolic Solutions - L. K. Mirzaeva,   |      |      |
| I. E. Makasheva, and M. T. Golovkina   | 1441 | 1631 |
| 1. E. Makasneva, and M. I. Golovkina.  | 1441 | 1031 |
| Hydrogen Bonds of Amides. XIII. IR Spectra and Structure   |      |      |
| of Dipeptides - I. M. Ginzburg   | 1445 | 1635 |
| Electrochemical Reactivity and Activity of Cyclones  |      |      |
| in the Diels-Alder Reaction - Yu. M. Kargin,   |      |      |
| V. Z. Latypova, G. A. Bogoveeva, Ya. D. Samuilov,  |      |      |
| and A. I. Konovalov  | 1451 | 1642 |
| Synthesis of an N-End Decapeptide with the Sequence  |      |      |
| of Salmon Calcitonin. Study of the Possibility of Cyclization  |      |      |
| on the Polysaccharide Carrier Sephadex LH-20   |      |      |
| - N. Yu. Kozhevnikova, L. V. Krasnikov, and G. P. Vlasov   | 1/56 | 1646 |
| Synthesis of Deoxyglycosides of 1,2-Diglycerides   | 1430 | 1040 |
|  |      |      |
| - N. G. Morozova, L. V. Volkova, O. A. Dmitrieva,  | 1//0 | 1651 |
| and R. P. Evstigneeva  | 1460 | 1651 |
| New Derivatives of D-Sorbitol - Yu. A. Zhdanov, L. A. Uzlova,  |      |      |
| G. K. Kist'yan, and S. Yu. Shkokova  | 1463 | 1655 |
| Thermodynamics of the Stagewise Dissociation of L-Aspartic Acid  |      |      |
| - V. P. Vasil'ev, L. A. Kochergina, S. G. Iven'kova,   |      |      |
| and M. V. Kuturov  | 1465 | 1657 |
| Aminolysis, Alcoholysis, and Hydrolysis Reactions of the N-Hydroxy-  |      |      |
| 5-norbornene-2,3-dicarboximide Ester of (tert-   |      |      |
| Butoxycarbonyl)glycine under Peptide-Synthesis Conditions  |      |      |
|  |      |      |
| - Yu. P. Shvachkin, S. K. Girin, KD. Kaufman, and R. Dölling   | 1471 | 1664 |
| Combined and Chair of the Cincular Disharder Constant  | 14/1 | 2004 |
| Synthesis and Study of the Circular-Dichroism Spectra  |      |      |
| of Analogs of S-Adenosyl-L-homocysteine, Potential   |      |      |
| Inhibitors of Methyltransferases - V. N. Rekunova,   |      | 1000 |
| V. M. Gurevich, and A. M. Yurkevich  | 1475 | 1668 |
| Silyl Steroids. VII. Synthesis and Stereochemistry   |      |      |
| of D-1,2,3,4-Tetrakis(trimethylsilyl)estr-5(10)-enes   |      |      |
| - O. N. Minailova, V. M. Rzheznikov, and K. K. Pivnitskii  | 1488 | 1683 |
|  |      |      |
| LETTERS TO THE EDITOR  |      |      |
| Conformations of 2,2-Dimethyl-5-phenyl-1,3-dioxa-5-  |      |      |
| phospha-2-silacyclohexane 5-Sulfide — E. N. Strelkova,   |      |      |
| I. I. Patsanovskii, E. A. Ishmaeva, N. M. Kudyakov,  |      |      |
| M. G. Voronkov, and A. N. Pudovik  | 1493 | 1688 |
| Reactions of Dialkyl Vinyl Phosphites with Carboxylic Acids  |      |      |
| - T. Kh. Gazizov, R. U. Belyalov, and A. N. Pudovik  | 1494 | 1690 |
|  |      |      |
| Intramolecular Alkylation of the Nitrogen Atom in 1,2-0-   |      |      |
| Isopropylidene-α-D-glucofuranose Phenylphosphoramidites  |      |      |
| - E. E. Nifant'ev, M. P. Koroteev, and A. V. Vasil'ev  | 1495 | 1691 |
| Hydrophosphorylated Vinyl Ketones - V. I. Yudelevich,  |      |      |
| M. A. Anufriev, L. B. Sokolov, B. I. Ionin,  |      |      |
| E. V. Komarov, and L. G. Myasnikova  | 1496 | 1692 |
| α-Ferrocenylalkylation - V. I. Boev and A. V. Dombrovskii  | 1497 | 1693 |
| Nonvalent Vacant s Orbitals - B. A. Suvorov  | 1498 | 1694 |
| Kinetics of Reactions of (Diarylphosphinyl)methyl Arenesulfonates  | 2.70 |      |
| with Sodium Benzenethiolate in Absolute Methanol   |      |      |
| - M. P. Voloshin and R. V. Vizgert   | 1500 | 1696 |

| Course of Curve of Four-Phase Equilibrium of Three-Component System  | 1501         | 1607 |
|--|--------------|------|
| in Region of a Critical End Point — V. P. Sazonov  | 1501         | 1697 |
| Fthyl Acetate - E. N. Svechnikova and V. A. Podolyanko Fquilibrium of Liquid Phases in Water-Isobutyric Acid-Dimethyl-   | 1505         | 1702 |
| pyridine Systems - V. F. Sergeeva and Z. A. Zakumbaeva Spectroscopic Investigation of the Two-Component System   | 1507         | 1704 |
| 3-Cyanopropionaldehyde-Methanol - M. G. Katsnel'son, S. S. Misnik, A. V. Nogin, and B. P. Tarasov Standard and Formal Potentials of the System Indium(III) Aqua Ions-Indium Amalgam - Ya. I. Tur'yan, I. A. Tikhonova,   | 1510         | 1706 |
| and M. K. Strizhov   | 1513         | 1710 |
| - Ya. I. Tur'yan, I. A. Tikhonova, and N. K. Strizhov  | 1520         | 1717 |
| and I. L. Zakharov   | 1525         | 1723 |
| and G. V. Kharitonov   | 1530         | 1729 |
| Oxidation of Hydroquinone Phosphate by Hydrogen Peroxide in Presence of Copper Ions — A. Z. Muradov and A. A. Yasnikov   | 1532         | 1731 |
| and N. E. Makasheva  | 1537         | 1736 |
| Relationship - S. P. Srivastava and B. B. L. Mathur  | 1540         | 1740 |
| G. S. Lyashenko, A. Kh. Filippova, and N. G. Glukhikh Study of Intramolecular Interactions in Unsaturated Carbonyl Compounds Containing Group VIA Elements by Methods of Electronic and Vibrational Spectroscopy. I. Substituted Methyl Vinyl Ketones — A. M. Panov, G. V. Ratovskii, D. D. Chuvashev, T. M. Filippova, and S. R. Buzilova | 1546<br>1549 |      |
| Study of Intramolecular Interactions in Unsaturated Carbonyl Compounds Containing Group VIA Elements by Methods of Electronic and Vibrational Spectrocopy. II. Competing-Conjugation Effect - A. M. Panov, G. V. Ratovskii, T. V. Lipovich, T. M. Filippova,   | 1347         | 1/30 |
| and S. R. Buzilova   | 1560         | 1761 |
| G. V. Ratovskii, D. D. Chuvashev, and T. É. Moskovskaya Structure, Acid-Base Properties, and Complex-Forming Properties of N-Phosphorylated Thiobenzamides — M. G. Zimin, G. A. Lazareva, N. I. Savel'eva, R. G. Islamov, N. G. Zabirov, V. F. Toropova,   | 1564         | 1765 |
| and A. N. Pudovik  | 1573         | 1776 |
| - N. A. Andreev and O. N. Grishina   | 1581         | 1785 |
| Synthesis of (2-Methyl-1,3-butadienyl)-phosphonic and -phosphonothionic Diamides, Amidic Esters, and Diesters - A. Yu. Prorubshchikov, N. G. Kuzina, A. D. Lykov, P. M. Reshetov,  |              |      |
| L. N. Mashlyakovskii, and B. I. Ionin  | 1587         | 1793 |
| - V. V. Ragulin, A. A. Petrov, and V. I. Zakharov  | 1597         | 1803 |
| I. V. Tsivunina, V. K. Khairullin, and V. G. Zaripova  | 1602         | 1808 |
| and A. M. Sotnik   | 1606         | 1813 |

## Volume 52, Number 8, Part 2 August, 1982

| Side Reactions in the Direct Chromatography of Trialkylaluminums                                   |      |      |
|--|------|------|
| and Their Suppression - N. T. Ivanova, N. N. Khromykh,   |      |      |
| and V. N. Bochkarev  | 1609 | 1816 |
| Reactions of 1,2-Bis(acetylthio)-1-organoethanes   |      |      |
| with Alkoxyalkylstannanes and Polydialkylstannoxanes   |      |      |
| - M. G. Voronkov, R. G. Mirskov, G. V. Kuznetsova,   |      |      |
| N. K. Yarosh, O. G. Yarosh, O. S. Stankevich,  |      |      |
| A. I. Albanov, and V. Yu. Vitkovskii   | 1612 | 1820 |
| Synthesis of Arylethynyldimethylsilanes, and Spectroscopic   |      |      |
| Investigation of the Interaction between the Substituent   |      |      |
| X and C≡CH in Molecules of 4-XC <sub>6</sub> H <sub>6</sub> Si(CH <sub>3</sub> ) <sub>2</sub> C≡CH |      |      |
| - M. G. Voronkov, O. G. Yarosh, N. I. Shergina,  |      |      |
| O. A. Zasyadko, and I. M. Korotaeva  | 1616 | 1824 |
| Reactions of 2-Alkoxy-1-penten-3-ols with Diethyl-   | 1010 |      |
| and Diethylfluoro-silanes - M. G. Voronkov.  |      | *    |
|  |      |      |
| N. A. Keiko, T. A. Kuznetsova, I. D. Kalikhman,  |      | 1000 |
| V. V. Keiko, and O. B. Bannikova   | 1621 | 1829 |
| Synthesis of tert-Butyl 2-Methyl-3-(triethylgermyl)peroxypropionate                                |      |      |
| and Its Thermal-Decomposition Reactions — G. A. Razuvaev,  |      |      |
| T. N. Brevnova, T. A. Chesnokova, L. S. Troitskaya,  |      |      |
| and M. P. Shevtsova  | 1624 | 1832 |
| Some Reactions of 1-[(Chloroorganosily1)-alky1   |      |      |
| and -aryl]adamantanes - N. S. Fedotov, G. E. Evert,  |      |      |
| E. V. Bolosova, Zh. V. Gorislavskaya, G. B. Belyakova,   |      |      |
| L. V. Sobolevskaya, E. K. Dobrovinskaya,   |      |      |
| and V. F. Mironov  | 1628 | 1837 |
| Coammonolysis of 1,3-Bis(chlorodimethylsily1)-2,2,4,4-   | 1010 | 2001 |
| tetramethylcyclodisilazane with Dichlorodimethylsilane   |      |      |
| - M. M. Morgunova, Yu. M. Varezhkin, A. E. Chernyshev,   |      |      |
|  | 1/22 | 1843 |
| V. N. Bochkarev, and D. Ya. Zhinkin  | 1633 | 1043 |
| Hydrosilylation of Alkenylphenol Acetates with Dichloromethylsilane                                |      |      |
| - V. A. Sergeev, V. K. Shitikov, G. U. Abbasov,  |      |      |
| M. R. Bairamov, A. A. Zhdanov, T. V. Astapova,   |      |      |
| and S. M. Aliev  | 1636 | 1846 |
| Interconversion of cis and trans Isomers of 2,4,6-Trimethyl-                                       |      |      |
| 2,4,6-triphenylcyclotrisiloxane — Yu. V. Tsyganov  |      |      |
| and V. P. Mileshkevich   | 1639 | 1849 |
| Structure and Donor Activity of Organometallic Compounds.  |      |      |
| XXI. Electronic Effects of Substituents in Ethynylsilanes  |      |      |
|  |      |      |
| - Yu. V. Kolodyazhnyi, N. I. Sizova, I. G. Lorents,  |      |      |
| L. I. Kuznetsova, A. P. Sadimenko, L. I. 01'khovskaya,   |      | 1055 |
| and N. V. Komarov  | 1644 | 1855 |
| Synthesis and Some Properties of 2-(1-siloxyvinyl)furans   |      |      |
| - N. V. Komarov, E. G. Lisovin, A. N. Komarov,   |      |      |
| A. L. Chekhun, and V. G. Kul'nevich  | 1651 | 1862 |
| Catalytic Activity of (Acyloxy)alkylstannanes in the Reaction                                      |      |      |
| of 4-Methyl-m-phenylene Diisocyanate with Triethylene  |      |      |
| Glycol - I. M. Aliev, N. M. Noskov, M. É. Tasilova,  |      |      |
| S. A. Klyuchinskii, Yu. I. Dergunov, V. S. Zavgorodnii,  |      |      |
| B. I. Rogozev, and A. A. Petrov  | 1654 | 1866 |
| Proton-Acceptor Power of Aromatic and Heterocyclic   |      |      |
| Carbonyl Compounds at the Stage of Hydrogen-Bond Formation.  |      |      |
| III. 5-Substituted 2-Thiophenecarboxaldehydes  |      |      |
|  | 1659 | 1871 |
| - A. P. Shkumat, V. V. Polyakov, and S. V. Tsukerman   | 1033 | 1011 |
| Nitrosyl Cation as One-Electron Oxidant in Reactions   |      |      |
| of Some Heteroaromatic Compounds with Nitric Acid  |      | 1077 |
| - A. S. Morkovnik  | 1664 | 1877 |
| Catalytic Activity and Physicochemical Properties  |      |      |
| of the Complexes of 1-Propanol with AlX3 Formed  |      |      |
| in the Alkylation of Benzene - L. E. Latysheva,  |      |      |
| T. G. Laperdina, G. A. Kalabin, O. V. Ishchenko,   |      |      |
| N. M. Kuimova, T. V. Lipovich, and V. G. Lipovich  | 1669 | 1883 |
|  |      |      |

Engl./Russ.

| Reactions of (Triethylgermyl)lithium with Dialkylamides of α,β-Unsaturated Carboxylic Acids - D. A. Bravo-Zhivotovskii, S. D. Pigarev, I. D. Kalikhman, O. A. Vyazankina, |      |      |
|---|------|------|
| and N. S. Vyazankin   | 1717 | 1935 |
| Volume 52, Number 9, Part 1 September, 1982   |      |      |
|   |      |      |
| Phase Diagrams of Ternary Systems with Two Two-Phase Regions  |      |      |
| - V. P. Sazonov   | 1719 | 1937 |
| — A. A. Grigor'ev, Yu. V. Kondrat'ev, and A. V. Suvorov Enthalpies of Solution of Neodymium Chloride in 1-Propanol-Water Mixtures — S. N. Solov'ev, N. A. Solomatina,     | 1726 | 1944 |
| and A. F. Voroblev  | 1730 | 1949 |
| of Solutions of Electrolytes — G. S. Nikolaev   | 1734 | 1953 |
| and A. N. Pudovik   | 1739 | 1958 |
| R. D. Gareev, M. V. Cherkina, É. G. Yarkova, L. A. Burnaeva,  |      |      |
| and A. N. Pudovik   | 1742 | 1962 |
| N. M. Kashtanova, and A. N. Pudovik   | 1745 | 1965 |
| L. A. Burnaeva, E. I. Gol'dfarb, and A. N. Pudovik  | 1749 | 1969 |
| M. V. Cherkina, L. A. Burnaeva, and A. N. Pudovik   | 1752 | 1972 |
| and I. F. Lutsenko  | 1754 | 1974 |
| and A. A. Petrov  | 1759 | 1979 |
| and A. G. Matyusha  | 1769 | 1991 |
| of the Phosphorylation of Alkenes with Phosphorus Pentachloride - V. G. Rozinov, V. V. Rybkina, V. E. Kolbina,  |      |      |
| G. A. Pensionerova, and V. I. Donskikh  | 1772 | 1994 |
| and V. G. Zaikin  | 1776 | 1998 |
| - G. N. Koidan, A. P. Marchenko, A. A. Kudryavtsev, and A. M. Pinchuk   | 1779 | 2001 |
| and para-Substituted Phenyl Diphenylphosphinates in Water and Water-Ethanol Mixtures - B. I. Istomin, N. A. Sukhorukova, A. V. Kalabina, and Yu. I. Sukhorukov            | 1787 | 2011 |
| Synthesis and Properites of Phosphorylated 3-Cyanopropionaldehyde  - B. A. Khaskin, T. G. Rymareva, and O. N. Drozdova  | 1795 | 2020 |
| Thermal Decomposition of 2,4-Pentanedionato-vanadium and -titanium Compounds - L. M. Dyagileva, E. I. Tsyganova, V. P. Mar'in,  |      |      |
| and Yu. A. Aleksandrov  | 1799 | 2024 |

| Electrochemical Fluorination of Tertiary Stibines   |      |      |
|---|------|------|
| - E. V. Nikitin, A. A. Kazakova, O. V. Parakin, and Yu. M. Kargin   | 1802 | 2027 |
| Kinetics of the Process for the Preparation of Selenourea   | 1002 | 2021 |
| - A. A. Efremov, V. V. Suvorov, A. M. Bessarabov, T. M. Sas,  |      |      |
| and V. V. Rudnev  | 1804 | 2029 |
| Alkylation of Ferrocene. I. Reactions of Ferrocene with 2-Chloroethanol and with 1,2-Dibromoethane - V. P. Tverdokhlebov.       |      |      |
| B. V. Polyakov, I. V. Tselinskii, and L. I. Golubeva  | 1907 | 2022 |
| Total and L. I. Golubeva  | 1807 | 2032 |
| Volume 52, Number 9, Part 2 September, 1982   |      |      |
| Complemental Manager VI Complement Inc.   |      |      |
| Complexes with Organic Ligands. XI. Complexes of Iron with Heterocyclic Analogs of 1-Nitroso-2-naphthol                         |      |      |
| - A. V. El'tsov and V. Yu. Kukushkin  | 1811 | 2036 |
| Synthetic Phytohormones. VI. (Organosilyl)methyl (Arylthio)acetates  - M. G. Voronkov, B. Shirchin, N. I. Golovanova,           | 1011 | 2030 |
| and A. I. Albanov   | 1823 | 2049 |
| Synthetic Phytohormones. VII. (Trialkylsily1) - and (Trimethoxysily1) - methyl (Aryloxy)acetates - M. G. Voronkov, B. Shirchin, | 1023 |      |
| G. Dolmoo, N. I. Golovanova, and A. I. Albanov  | 1826 | 2052 |
| Reactions of (Halomethyl)trialkylsilanes, (Halomethyl)-   | 2025 |      |
| pentamethyldisiloxanes, and Bis(halomethyl)tetramethyl-   |      |      |
| disiloxanes with Tertiary Amines - M. G. Voronkov,  |      |      |
| S. V. Kirpichenko, A. T. Abrosimova, A. I. Albanov,   |      |      |
| and V. I. Lavrent'ev  | 1829 | 2055 |
| Hydrolytic Polycondensation of Trichloro-ethyl-   |      |      |
| and -vinyl-silanes - M. G. Voronkov, N. I. Ushakova,<br>V. I. Lavrent'ev, Yu. V. Vasikhin, P. P. Rodionov,                      |      |      |
| and V. B. Pukhnarevich  | 1833 | 2060 |
| Reactions of Some Carbofunctional Mercury Compounds   | 1033 |      |
| with Bis(triethylsilyl)mercury and with Bis(triethylgermyl)-  |      |      |
| mercury - N. S. Vyazankin, L. I. Belousova,   |      |      |
| O. A. Vyazankina, É. I. Brodskaya, and I. D. Kalikhman  | 1835 | 2062 |
| High-Boiling By-products of the Synthesis of 10,10-Dichloro-  |      |      |
| 10H-9-oxa-10-silaphenanthrene - V. N. Bochkarev,  |      |      |
| N. N. Troitskaya, B. M. Luskina, V. V. Matveev,   | 1920 | 2068 |
| and T. L. Krasnova  | 1839 | 2000 |
| -germanes, and -stannanes - A. S. Gordetsov,  |      |      |
| V. N. Latyaeva, S. E. Skobeleva, V. V. Pereshein,   |      |      |
| O. S. Rukevich, and Yu. I. Dergunov   | 1843 | 2072 |
| 1,1-Disubstituted O-Silyl and O-Germyl 3-Ethoxy-2-propyn-1-ols:   |      |      |
| Thermal Decomposition and Isomerization into Ethyl  |      |      |
| 2-Heteroelement-Substituted Acrylates - G. S. Zaitseva,   |      |      |
| L. I. Livantsova, N. A. Orlova, Yu. I. Baukov,  | 10/7 | 2076 |
| and I. F. Lutsenko  | 1847 | 2076 |
| Kinetics of the Addition of Methanesulfenyl Chloride<br>to Functional Derivatives of 1,3-Enynic Hydrocarbons                    |      |      |
| and Sila Hydrocarbons - N. N. Belyaeva, E. V. Komissarova,  |      |      |
| and M. D. Stadnichuk  | 1854 | 2084 |
| Reactions of Hexamethyldisilathiane with Some Organometallic Acids  |      |      |
| - M. D. Mizhiritskii, E. P. Lebedev, and A. N. Fufaeva  | 1859 | 2089 |
| Reactions of Organosilathianes with B-Diketones,  |      |      |
| Oximes, and Thiols - M. D. Mizhiritskii, E. P. Lebedev,   |      |      |
| and A. N. Fufaeva   | 1862 | 2092 |
| Synthesis of N-[(Dimethoxymethylsily1)methyl]lactams and N-[(Trimethoxy-  |      |      |
| silyl)methyl]lactams and Their Hydrolytic Condensation  |      |      |
| - L. M. Khananashvili, D. Sh. Akhobadze, L. K. Dzhaniashvili,   | 1961 | 2005 |
| Yu. I. Baukov, and E. P. Kramarova  | 1864 | 2095 |
| Catalytic Rearrangement Reactions between Chloro-<br>and Alkoxy-silanes - G. A. Nikolaev, V. P. Mileshkevich,                   |      |      |
| P. M. Vainshtein, and O. A. Shmeleva  | 1867 | 2098 |
|   |      |      |

| Reactions of Silyl-ureas and -carbamic Esters with Phosgene<br>and with Alkyl Chloroformates. Synthesis of Allophanic |      |      |
|---|------|------|
| and Imidodicarboxylic Acid Chlorides and Esters   |      |      |
| - V. F. Mironov, V. P. Kozyukov, and G. I. Orlov  | 1870 | 2102 |
| Synthesis and Reactions of Butylmethyl(2-propynyloxy)silane   | 20,0 | 2102 |
| - S. F. Karaev, Sh. O. Guseinov, M. E. Askerov,   |      |      |
| and M. M. Movsumzade  | 1875 | 2106 |
| Influence of Solvents on the Electronic Spectra of Molecules.   | 10/3 | 2100 |
| IV. Intramolecular Transfer of Charge in Autocomplexes  |      |      |
|   | 1877 | 2108 |
| - V. V. Prezhdo, V. V. Bocharova, and A. E. Lutskii   | 10// | 2100 |
| Amino-Acid Complexes of Neodymium - O. N. Puplikova,  | 1880 | 2110 |
| G. A. Lazerko, and L. N. Neokladnova  | 1000 | 2112 |
| Methylation of N-Organylidene-p-(vinyloxy)anilines  |      |      |
| - Z. M. Garashchenko, G. G. Skvortsova,   | 1884 | 2116 |
| and N. S. Mabarakshina  | 1004 | 2116 |
| Telomerization of Isoprene with Phenol Catalyzed  |      |      |
| with Bis(dibenzylideneacetonato)palladium   | 1996 | 2110 |
| - L. I. Zakharkin, V. N. Medvedkov, and E. A. Petrushkina   | 1886 | 2118 |
| Synthesis of Some S Derivatives of 2,4-Di-tert-butyl-6-mercaptophenol   |      |      |
| - A. M. Kuliev, V. M. Farzaliev, M. A. Allakhverdiev,   | 1889 | 2122 |
| and Ch. I. Mamedov  | 1009 | 2122 |
| Homolytic Transformations of 2-Ethoxy-1,3-dioxolane   |      |      |
| in Bromoform - L. Z. Rol'nik, S. M. Kalashnikov,  | 1002 | 2126 |
| E. V. Pastushenko, S. S. Zlot-skii, and D. L. Rakhmankulov  | 1093 | 2126 |
| LETTERS TO THE EDITOR   |      |      |
| Reactions of 3,3,3-Trifluoro-N-(hexafluoroisopropylidene)-  |      |      |
| 2-(trifluoromethyl)propionamide with Dialkyl Hydrogen   |      |      |
| Phosphites - L. N. Kryukov, L. Yu. Kryukova,  |      |      |
| and A. F. Kolomiets   | 1899 | 2133 |
| Reactions of Phosphorus Esters with 5H-Octafluorovaleraldehyde  |      |      |
| Hydrate - S. F. Aleinikov, I. G. Maslennikov,   |      |      |
| and A. N. Lavrent'ev  | 1900 | 2134 |
| Thermal Synthesis of 1,1,3,3-Tetrachloro-1,3-disilacyclohex-4-ene   |      |      |
| - E. A. Chernyshev, G. G. Komalenkova, S. A. Bashkirova,  |      |      |
| T. M. Sokolova, and M. Ya. Fuks   | 1901 | 2135 |
| Example of Tautomerism among Atrane-Like Compounds  |      |      |
| of Germanium - N. V. Alekseev, S. N. Gurkova,   |      |      |
| A. I. Gusev, S. N. Tandura, T. K. Gar, N. Yu. Khromova,   |      |      |
| N. A. Viktorov, and V. F. Mironov   | 1902 | 2136 |
| Synthesis and Structure of the Tricarbonylchromium  |      |      |
| Complexes of 9,10-Dihydro-9,9,10,10-tetramethyl-  |      |      |
| 9,10-disilaanthracene - O. B. Afanasova, N. G. Komalenkova,   |      |      |
| Yu. E. Zubarev, V. M. Nosova, A. V. Kisin, V. A. Sharapov,  |      |      |
| A. I. Gusev, N. V. Alekseev, N. I. Kirillova,   |      |      |
| and E. A. Chernyshev  | 1903 | 2137 |
| Hydrosilylation of 1,3-Dehydroadamantane - B. I. No,  |      |      |
| V. V. Son, T. V. Belyakova, V. P. Ushchenko,  |      |      |
| and N. I. Kulikova  | 1904 | 2138 |
| Catalytic Reactions of Haloadamantanes with Lithium   | 1704 | 2130 |
| - B. I. No, V. V. Son, T. V. Belyakova, and N. I. Kulikova  | 1905 | 2139 |
| Dichloro(dialkoxyphosphinyl)acetaldehydes - V. M. Ismailov,   | 2703 | -237 |
| V. V. Moskva, L. A. Dadasheva, T. V. Zykova,  |      |      |
| and F. I. Guseinov  | 1906 | 2140 |
| Synthesis and Reactions of Silyl Carbamates. Thermolysis  |      |      |
| of Trimethylsilyl Methylcarbamate - V. D. Sheludyakov,  |      |      |
| A. B. Dmitrieva, V. Yu. Tumova, V. N. Bochkarev,  |      |      |
| A. D. Kirilin, and E. A. Chernyshev   | 1907 | 2142 |
|   |      |      |

| N"-Alkyl-N,N,N',N'-tetraethyl-p-(trichloromethyl)phosphonimidic                 |      |      |
|---|------|------|
| Diamides - É. S. Kozlov and L. G. Dubenko                                       | 1992 | 2239 |
| Dipole Moments of Chloroethylphenyl- and Ethyldiphenyl-arsines                  |      |      |
| and the Conformations of Their ortho Derivatives                                |      |      |
| - F. G. Khalitov, R. R. Shagidullin, and L. A. Gorchakova                       | 1996 | 2243 |
| Conformations of 2,2-Dimethyl-5-phenyl-1,3,5,2-dioxaphosphasilinane             |      |      |
| - Ē. A. Ishmaeva, I. I. Patsanovskii, T. A. Zyablikova,                         |      |      |
| E. N. Strelkova, and I. P. Romanova   | 2002 | 2249 |
| Synthesis and Investigation of Phosphonium Compounds Containing                 |      |      |
| a 1,4-Benzodioxan Ring System - I. V. Megera, V. L. Vlad,                       |      |      |
| and I. I. Sidorchuk   | 2004 | 2252 |
| Stable Organocobalt Derivatives of o-Carbaborane Containing a                   |      |      |
| Carbaborane Carbon-Cobalt Bond - Yu. A. Ol'dekop,                               |      |      |
| N. A. Maier, A. A. Érdman, and V. P. Prokopovich                                | 2008 | 2256 |
| Hydrosilylation of 3-(Arylamino)-1-butynes and Their N-Acyl                     |      |      |
| Derivatives — L. I. Kopylova, S. F. Malysheva,                                  |      |      |
| E. P. Vyalykh, and M. G. Voronkov   | 2011 | 2259 |
|   |      |      |
| Volume 52, Number 10, Part 2 October, 1982                                      |      |      |
| Parameterization of Quantum-Chemical Calculations of Organic Compounds          |      |      |
| of Silicon by Means of Photoelectron Spectroscopy and the Electronic            |      |      |
| Spectroscopy of CTC - V. F. Traven', V. V. Redchenko,                           |      |      |
| and B. I. Stepanov.   | 2015 | 2262 |
| Synthesis of $\beta$ -[(Trimethylsilyl)amino] Carboxylic Esters                 | 2010 |      |
| - I. I. Lapkin, V. I. Semenov, and F. G. Saitkulova                             | 2021 | 2270 |
| Reactions of Dialkyloxostannanes with Organic Imides                            | 2021 | 22.0 |
| and Diacylamines - V. I. Shcherbakov, N. E. Stolyarova,                         |      |      |
| O. S. D'yachkovskaya, and T. I. Chulkova  | 2023 | 2273 |
| Oxidation of Di-tert-Butyldichlorostannane and of Di-tert-Butyldimethylstannane | 2020 | 2210 |
| with Ozone - B. I. Tarunin, V. N. Tarunina, and Yu. A. Aleksandrov              | 2027 | 2276 |
| Synthesis and Steric Structure of 2-Alkoxy-1,3-dioxa-2-silacyclohexanes         | 2021 | 2210 |
| - V. I. Larionov, L. F. Lapuka, R. S. Musavirov, S. S. Zlot-skii,               |      |      |
| and D. L. Rakhmankulov  | 2030 | 2280 |
| Reactions of 4-R-1,3-Dioxacycloalkanes with Triethylsilane                      | 2030 | 2200 |
| - I. V. Mironov, I. A. Mel'nitskii, I. N. Siraeva, T. K. Kiladze,               |      |      |
| E. A. Kantor, and D. L. Rakhmankulov  | 2034 | 9994 |
| Reaction of Butyllithium with Bis(trimethylsilyl) Peroxide                      | 2034 | 4404 |
| Yu. N. Baryshnikov, Yu. A. Kurskii, N. N. Kaloshina,                            |      |      |
| and G. I. Vesnovskaya   | 000= | 9999 |
| Heterosubstituted Methylvinyloctasilasesquioxanes - L. É. Gorsh,                | 2037 | 4400 |
|   | 0043 | 0000 |
| V. I. Lavrent'ev, A. N. Kanev, and F. A. Kuznetsov                              | 2041 | 2292 |
| Reactions of Diethyldiethynylsilane with Heterocyclic Ketones                   | 0045 | 0000 |
| - K. K. Kalitov, S. G. Gabitova, L. Sh. Polyak, and V. S. Bazalitskaya          | 2045 | 2297 |
| Complexes with Organic Ligands. IX. Synthesis and Structure of an Azomethine    |      |      |
| of a 5-Aminopyrazole-4-carboxaldehyde and Its Inner-Complex                     |      |      |
| Compounds with Zn(II), Co(II), Ni(II), and Cu(II) - I. Ya. Kvitko,              |      |      |
| L. V. Alam, N. I. Rtishchev, A. V. El'tsov, L. N. Kurkovskaya,                  |      |      |
| and N. B. Chebotareva   | 2048 | 2300 |
| Structure and $\pi$ -Donor Properties of Aromatic and Heteroaromatic            |      |      |
| Compounds - A. N. Fedotov, I. P. Gol'dshtein, I. G. Il'ina,                     |      |      |
| and E. N. Gur'yanova  | 2053 | 2306 |
| Many-Electron Electrode Processes. IX. Electrochemical Reduction                |      |      |
| of N-Nitromethylamine and N-Nitrobenzenesulfonamide and Their                   |      |      |
| N-Derivatives in Dimethylformamide - N. I. Semakhina,                           |      |      |
| T. A. Podkovyrina, A. V. Supyrev, L. I. Lyzhina, and Yu. M. Kargin              | 2060 | 2316 |
| Polarographic Behavior of 1-Diazo-ω-phthalimido-2-alkanones                     |      |      |
| - L. D. Gomza, V. V. Zalesov, G. A. Veikhman, G. I. Legotkina,                  |      |      |
| and Yu. S. Andreichikov   | 2065 | 2322 |
| Radical Telomerization of Ethylene with 2-Methyl-1,3-oxathiolane                | 2000 | 2022 |
| - A. V. Germash, V. V. Zorin, S. V. Nikolaeva, S. S. Zlot-skii,                 |      |      |
| A. B. Terent'ev, and D. L. Rakhmankulov   | 2071 | 2328 |
| Reductive Amination of 4-Methylcyclohexanol with Aliphatic Nitriles             | 2011 | 2020 |
| - N. G. Kozlov, G. V. Kalechits, T. I. Pekhk, and B. G. Udarov                  | 2074 | 2332 |
| it, o, assist, o, t. materials, i. i. i endit, and D. G. Cuatur                 | 2017 | 2002 |

| Amino-Acid and Peptide Derivatives of (Aminoalkyl)indoles.                 |      |      |
|--|------|------|
| XIV. Polyglutamic Acid Linked to Serotonin and to 5-Methoxytryptamine      |      |      |
| - N. N. Suvorov, G. V. Popova, A. D. Neklyudov, E. V. Tsvetkov,            |      |      |
| K. F. Turchin, A. P. Kiselev, and L. N. Yaskevich                          | 2079 | 2337 |
| Physicochemical Properties of C-Aminoacyl Peptide Derivatives              |      |      |
| of Protohemin IX: Models of the Active Center of Human                     |      |      |
| Hemoglobin - V. N. Luzgina, E. N. Filippovich, A. F. Vanin,                |      |      |
| S. V. Khangulov, A. I. Tsapin, and R. P. Evstigneeva                       | 2084 | 2343 |
| Influence of Alkali-Metal Salts on the Autoxidation of Human Oxyhemoglobin |      |      |
| IV. Influence of Buffer Carboxylate Ions - A. E. Myshkin                   |      |      |
| and G. K. Chudinova  | 2088 | 2347 |
| 6-Phosphorylated Lepidines - A. A. Tolmachev, É. S. Kozlov,                | 2000 | 2011 |
| and A. M. Pinchuk  | 2092 | 2352 |
| and A. W. Finchuk  | 2032 | 2002 |
| LETTERS TO THE EDITOR  |      |      |
| Method of Lengthening the Carbon Chain of Sugars with the Aid              |      |      |
| of Ethyl 1,3-Dithiane-2-carboxylate - Yu. A. Zhdanov,                      |      |      |
| V. I. Kornilov, Yu. M. Mikshiev, B. B. Paidak, and V. M. Stoyanov          | 2095 | 2355 |
| New Catalytic Reaction of the Reduction of Primary Alcohols                |      |      |
| and Alkyl Iodides to Alkanes in Aqueous PtII-I- Solutions                  |      |      |
| - V. V. Zamashchikov, E. S. Rudakov, M. A. Mitchenko,                      |      |      |
| and S. L. Litvinenko   | 2096 | 2356 |
| Anodic Oxidation of Some Derivatives of P(III) Acids - E. V. Nikitin,      | 2000 |      |
| A. S. Romakhin, V. G. Malaev, O. V. Parakin, Yu. A. Ignat'ev,              |      |      |
| G. V. Romanov, I. P. Kosachev, M.K. Nasyrov, Yu. M. Kargin,                |      |      |
| and A. N. Pudovik.   | 2007 | 2358 |
| Prototropic Phosphoryl-Hydroxy-ylide Triad Tautomerism                     | 2031 | 2000 |
|  |      |      |
| -I. M. Aladzheva, I. V. Leont'eva, P. V. Petrovskii,                       | 0000 | 0050 |
| and T. A. Mastryukova  | 2098 | 2358 |
| Reactions of Alkylphosphonous Dichlorides with 2-Ethoxytetrahydropyran     | 0100 | 0000 |
| - M. B. Gazizov, I. Kh. Gizatullina, and A. I. Razumov                     | 2100 | 2360 |
| 2+2 Cycloaddition of Isocyanates to (Phosphinidenemethylene)amines         |      | 0001 |
| - O. I. Kolodyazhnyi   | 2101 | 2361 |
| Redistribution Reaction in the Tributylphosphine-Phosphorus                |      |      |
| Trichloride System - P. S. Khokhlov and G. D. Sokolova                     | 2102 | 2363 |
| Preparation of <sup>32</sup> P-Labeled Phosphorylated Benzimidazoles       |      |      |
| - A. M. Makarov, G. L. Matevosyan, and P. M. Zavlin                        | 2103 | 2363 |
| Photoinitiated Gas-Phase Synthesis of Glassy Polymeric Phosphates          |      |      |
| _ O. S. Sirotkin, V. V. Zav'yalov, M. Yu. Khitrov, and S. F. Yakusheva     | 2104 | 2365 |
| Synthesis and Chemical Features of 2-Alkoxy-5,5-bis(bromomethyl)-          |      |      |
| 1,3,2-dioxaphosphorinanes - V. V. Khalturin and É. E. Nifant'ev            | 2105 | 2366 |
| Oxidation of 3-Amino-o-carbaborane - L. I. Zakharkin, G. G. Zhigareva,     |      |      |
| and E. I. Litonina   | 2106 | 2367 |
| Reactions of Nitriles with Sulfoxides in Presence of Sulfur Trioxide       |      |      |
| - Yu. I. Dergunov, I. I. Konstantinov, and N. N. Bochkareva                | 2107 | 2368 |
| Reactions of Ethyl Radicals with Ferrocene - G. A. Razuvaev,               |      |      |
| S. G. Yudenich, O. N. Druzhkov, and V.A. Dodonov                           | 0100 | 0000 |
| Dependence of Steric Structure on the Natures of the Heteroatoms           | 2108 | 2369 |
| and Substituents in Phenaza- and Phenoxa-silin(e)s and -stannin(e)s        |      |      |
|  | 0100 |      |
| - A. A. Simonenko, V. K. Bel'skii, I. E. Saratov, and V. O. Reikhsfel'd    | 2109 | 2370 |
| Relative Stabilities of Phenoxa-, Phenaza-, and Phenothia-silin(e)s        |      |      |
| and -germin(e)s to Electron Impact - A. A. Simonenko,                      | 2440 |      |
| V. N. Bochkarev, I. E. Saratov, and V. O. Reikhsfel'd                      | 2110 | 2371 |
| 1-Halogermatranes - V. I. Rakhlin, L. P. Petukhov, M. G. Voronkov,         |      |      |
| B. Z. Shterenberg, R. G. Mirskov, N. K. Yarosh, and V. A. Pestunovich.     | 2112 | 2373 |
| Reduction of Dimethyl Sulfoxide with Hydride Organosilanes                 |      |      |
| - N. P. Erchak, V. F. Matorykina, and É. Lukevits.                         | 2113 | 2374 |
| Reactions of Germanium Tetrahalides with Alkyl Vinyl Ethers                |      |      |
| - I. V. Efimova, M. A. Kazankova, and I. F. Lutsenko                       | 2114 | 2375 |
| New Method for the Synthesis of (1,3-Alkadienyl)trialkylsilanes            |      |      |
| - V. I. Koshutin and N. P. Nazarenko                                       | 2115 | 2376 |
| New Type of Photochemical Reactions of Nitrosyl Complexes                  |      |      |
| of Transition Metals - T. I. Drozdova, A. B. Nikol'skii,                   |      |      |
| and A. M. Popov  | 2116 | 2377 |
|  |      |      |

| Solubility of Water in Solvating Solvent—Diluent Binary Mixtures — A. K. Charykov, T. M., Potapova, and A. V. Kovenya  | Role of Radical Ions in the Transalkylation of Alkylbenzenes - L. E. Latysheva, T. G. Laperdina, A. L. Bazhenova, |      |         |
|--|---|------|---------|
| Possibilities and Limitations of the "Bilogarithmic Method" of Investigating Extraction Equilibria with the Extraction of Carboxylate Complexes of Metals Taken as Example – A. K. Charykov and N. N. Osipov.  T. M. Potapova, and A. V. Kovenya.  T. M. Potapova, and A. V. Kovenya.  T. M. Potapova, and A. V. Kovenya.  Todicles in the Temperature Range 298–348 K – N. D. Klushin, V. P. Pogodin, and A. F. Vorob'ev.  Complex Formation of Hafnium Acetate with Potassium Fluoride in Anhydrous Acetic Acid – A. A. Opalovskii, T. F. Gudinovich, M. Kh. Akhmadeev, L. D. Ishkova, and S. A. Frolkova A. A. Frolkova of Thermal-Dissociation Reactions of Some Zitronium Complexes – M. S. Novakovskii and V. R. Timofeva  Stereochemistry of Seven-Membered Heterocycles. VII. Synthesis and Conformational Analysis of Disatereoisomeric 4,7-Dimethylbenzo(e)-1,3-dioxepanes [1,5-Dihydro-1,5-dimethyl-2,4-benzodioxepins] – B. A. Arbuzov, E. N. Kilmovitskii, and G. N. Sergeava.  Stereochemistry of Seven-Membered Heterocycles. VIII. Conformations of 4-Phenylbenzo(e)-1,3-dioxepanes [1,5-Dihydro-1,4-phenyl-2,4-benzodioxepins]  — B. A. Arbuzov, E. N. Kilmovitskii, and R. M. Vafina  Steric Structure of Phosphorus-Containing Heterocycles. XXX. Intramolecular Electronic Enteractions in 2-Phenyl-1,3,2-dioxaphosphorinanes according to Electronic Spectroscopy — B. A. Arbuzov, R. P. Arshinova, and V. S. Vinogradova.  — P. I. Gryzznov, A. M. Kibardin, T. Kh. Gazizov, and A. N. Pudovik, and E. N. Offiserov.  — 1, Gryzznov, A. M. Kibardin, E. S. Batyeva, A. N. Pudovik, and E. N. Offiserov.  — 1, Gryzznov, A. R. Shagidullin, E. N. Streikova, G. M. Dovokhina, E. A. Berdnikov, R. R. Shagidullin, E. N. Streikova, G. M. Dovokhina, E. A. Berdnikov, R. R. Shagidullin, E. N. Streikova, G. M. Dovokhina, E. A. Berdnikov, R. R. Shagidullin, E. N. Streikova, G. M. Dovokhina, E. A. Alevando, V. Wakhlinets.  — 1, G. Gololobov and L. I. Nesterova.  "Influence" of Oxygen Contained in the Solvent on the Shortwave Bands of the Second Singlet x* Transition of Molecules of Benzene | V. V. Chenets, and V. G. Lipovich   | 2117 | 2379    |
| Equilibria with the Extraction of Carboxylate Complexes of Metals Taken as Example — A. K. Charykov and N. N. Osipov   | Volume 52, Number 11, Part 1 November, 1982   |      |         |
| Example — A. K. Charykov and N. N. Osipov Solubility of Water in Solvating Solvento-Diluent Binary Mixtures — A. K. Charykov, T. M. Potapova, and A. V. Kovenya.  T. M. Potapova, and A. V. Kovenya.  Thermal Conductivity of Dimethylformamide Solutions of Alkali-Metal Iodides in the Temperature Range 298–348 K – N. D. Klushin, V. P. Pogodin, and A. F. Vorob'ev.  Complex Formation of Hafnium Acetate with Potassium Fluoride in Anhydrous Acetic Acid — A. A. Opalovskii, T. F. Gudimovich, M. Kh. Akhmadeev, L. D. Ishkova, and S. A. Frolkova.  Kinetic Parameters and Enthalpy Changes of Thermal-Dissociation Reactions of Some Zirconium Complexes – M. S. Novakovskii and V. R. Timofeeva.  Stereochemistry of Seven-Membered Heterocycles, VII. Synthesis and Conformational Analysis of Diastereoisomeric 4,7-Dimethylbenzo[e]-1,3-dioxepanes [1,5-Dihydro-1,5-dimethyl-2,4-benzodioxepina] – B. A. Arbuzov, E. N. Kilmovitskii, and G. N. Sergeeva.  Stereochemistry of Seven-Membered Heterocycles, VIII. Conformations of 4-Phenylbenzo[e]-1,3-dioxepanes [1,5-Dihydro-1-phenyl-2,4-benzodioxepina] – B. A. Arbuzov, E. N. Kilmovitskii, and R. M. Vafina  Stereothemistry of Seven-Membered Heterocycles, VIII. Conformations of 4-Phenylbenzo[e]-1,3-dioxepanes [1,5-Dihydro-1-phenyl-2,4-benzodioxepina] – B. A. Arbuzov, E. N. Kilmovitskii, and R. M. Vafina  Stereothemistry of Seven-Membered Heterocycles, XXX. Intramolecular Electronic Interactions in 2-Phenyl-1,3,2-dioxaphosphorinanes according to Electronic Spectroscopy — B. A. Arbuzov, R. P. Arshinova, and V. S. Vinogradova.  Reactions of Dialkyl Butylisobutenylphosphoramidites with Acids and Phenols – P. I. Gryaznov, A. M. Kibardin, T. Kh. Gazizov, and A. N. Pudovik 2148 2428  Reactions of Dialkyl Butylisobutenylphosphoramidites with Acids and Phenols – P. I. Gryaznov, A. M. Kibardin, T. Kh. Gazizov, and A. N. Pudovik  1,3-Dipolar Cycloaddition of Diazoalkanes to Isopropenylphosphonates and Some Physicochemical Properties of Organophosphorus Compounds of the Cyclopropane Series — R. D. Gareev, A. V. C |   |      |         |
| Thermal Conductivity of Dimethylformamide Solutions of Alkali-Metal Iodides in the Temperature Range 298-348 K − N. D. Klushin, V. P. Pogodin, and A. F. Vorob'ev  | Example - A. K. Charykov and N. N. Osipov   | 2119 | 2393    |
| and A. F. Vorob'ev.  Complex Formation of Hafnium Acetate with Potassium Fluoride in Anhydrous Acetic Acid – A. A. Opalovskil, T. F. Gudimovich, M. Kh. Akhmadeev, L. D. Ishkova, and S. A. Frolkova Kinetic Parameters and Enthalpy Changes of Thermal-Dissociation Reactions of Some Zirconium Complexes – M. S. Novakovskil and V. R. Timofeeva.  Stereochemistry of Seven-Membered Heterocycles. VII. Synthesis and Conformational Analysis of Diastereoisomeric 4,7-Dimethylenzo(e]-1,3-dioxepanes [1,5-Dihydro-1,5-dimethyl-2,4-benzodioxepins] – B. A. Arbuzov, E. N. Kilmovitskil, and G. N. Sergeeva.  Stereochemistry of Seven-Membered Heterocycles. VIII. Conformations of 4-Phenylbenzo(e]-1,3-dioxepanes [1,5-Dihydro-1,benyl-2,4-benzodioxepins] – B. A. Arbuzov, E. N. Kilmovitskil, and R. M. Vafina  Beteronic Interactions in 2-Phenyl-1,3,2-dioxaphosphorinanes according to Electronic Spectroscopy – B. A. Arbuzov, R. P. Arshinova, and V. S. Vinogradova.  Reactions of Dialkyl Butylisobutenylphosphoramidites with Acids and Phenols – P. I. Gryaznov, A. M. Kibardin, T. Kh. Gazizov, and A. N. Pudovik.  Reactions of Phosphorus(III) Thio Esters with α,β-Unsaturated Carboxylic Acids – O. G. Sinyashin, T. N. Sinyashina, É. S. Batyeva, A. N. Pudovik, and E. N. Offtserov.  1,3-Diploir Cycloaddition of Diazoalkanes to Isopropenylphosphonates and Some Physicochemical Properties of Organophosphorus Compounds of the Cyclopropane Series – R. D. Gareev, A. V. Chernova, É. A. Ishmaeva, E. A. Berdnikov, R. R. Shagidullin, E. N. Strelkova, G. M. Dorozhkina, I. I. Patsanovskii, and A. N. Pudovik.  1, I. Patsanovskii, and A. N. Pudovik.  1, I. Patsanovskii, and A. N. Pudovik.  2161 2444 Hydrophosphoryal Derivatives of (Alkylamino)acetic Esters in the Synthesis of Tetrahydro-1,4,2-diazaphosphorin-5(4H)—one 2-Oxides – Yu. G. Gololobov and L. I. Nesterova.  2178 2459  N-(Hydrophosphory) Derivatives of (Alkylamino)acetic Esters in the Synthesis of Tetrahydro-1,4,2-diazaphosphorin-5(4H)—one 2-Oxides – Yu. G. Gololobov and L. I. Nesterova.  2180 2467  Some Re  | Thermal Conductivity of Dimethylformamide Solutions of Alkali-Metal   | 2124 | 2399    |
| Complex Formation of Hafalum Acetate with Potassium Fluoride in Anhydrous Acetic Acid – A. A. Opalovskii, T. F. Gudimovich, M. Kh. Akhmadeev, L. D. Ishkova, and S. A. Frolkova Some Zirconium Complexes – M. S. Novakovskii and V. R. Timofeeva.  Stereochemistry of Seven-Membered Heterocycles. VII. Synthesis and Conformational Analysis of Diastereoisomeric 4,7–Dimethylbenzo(e]-1,3-dloxepanes [1,5-Dihydro-1,5-dimethyl-2,4-benzodioxepins] – B. A. Arbuzov, E. N. Kilmovitskii, and G. N. Sergeeva.  Stereochemistry of Seven-Membered Heterocycles. VIII. Conformations of 4-Phenylbenzo(e]-1,3-dloxepanes [1,5-Dihydro-1-phenyl-2,4-benzodioxepins] – B. A. Arbuzov, E. N. Kilmovitskii, and R. M. Vafina Steric Structure of Phosphorus-Containing Heterocycles. XXX. Intramolecular Electronic Interactions in 2-Phenyl-1,3,2-dioxaphosphorinanes according to Electronic Spectroscopy – B. A. Arbuzov, R. P. Arshinova, and V. S. Vinogradova.  Reactions of Dialkyl Butylisobutenylphosphoramidites with Acids and Phenols – P. I. Gryaznov, A. M. Kibardin, T. Kh. Gazizov, and A. N. Pudovik.  2148 2428  Reactions of Phosphorus(III) Thio Esters with α,β-Unsaturated Carboxylic Acids – O. G. Sinyashin, T. N. Sinyashina, Ē. S. Batyeva, A. N. Pudovik, and E. N. Ofitserov.  1,3-Dipolar Cycloaddition of Diazoalkanes to Isopropenylphosphonates and Some Physicochemical Properties of Organophosphorus Compounds of the Cyclopropane Series – R. D. Gareev, A. V. Chernova, E. A. Ishmaeva, E. A. Berdnikov, R. R. Shagidullin, E. N. Strelkova, G. M. Dorozhkina, I. I. Patsanovskii, and A. N. Pudovik  Hydrophosphoryl Derivatives of (Alkylamino)acetic Esters in the Synthesis of Tetrahydro-1,4,2-diazaphosphorin-5(4H)-one 2-Oxides – Yu. G. Gololobov and L. I. Nesterova.  "Influence" of Oxygen Contained in the Solvent on the Shortwave Bands of the Second Singlet π* Transition of Molecules of Benzene and Its Derivatives – I. A. Ar'ev and N. V. Makhlinets.  2160 2467  "Influence" of Oxygen Contained in the Solvent on the Shortwave Bands of the Second Singlet π* Transition  |   | 0100 | 0405    |
| Kinetic Parameters and Enthalpy Changes of Thermal-Dissociation Reactions of Some Zirconium Complexes – M. S. Novakovskii and V. R. Timofeeva  | Complex Formation of Hafnium Acetate with Potassium Fluoride in Anhydrous   | 2129 | 2405    |
| Stereochemistry of Seven-Membered Heterocycles, VII. Synthesis and Conformational Analysis of Diastereoisomeric 4,7-Dimethylbenzo[e]-1,3-dioxepanes [1,5-Dihydro-1,5-dimethyl-2,4-benzodioxepins] - B, A. Arbuzov, E, N. Klimovitskii, and G. N. Sergeeva. 2139 2418  Stereochemistry of Seven-Membered Heterocycles. VIII. Conformations of 4-Phenylbenzo[e]-1,3-dioxepanes [1,5-Dihydro-1-phenyl-2,4-benzodioxepins] - B, A. Arbuzov, E, N. Klimovitskii, and R. M. Vafina 2144 2423  Steric Structure of Phosphorus-Containing Heterocycles. XXX. Intramolecular Electronic Interactions in 2-Phenyl-1,3,2-dioxaphosphorinanes according to Electronic Spectroscopy - B, A. Arbuzov, R. P. Arshinova, and V. S. Vinogradova. 2148 2428  Reactions of Dialkyl Butylisobutenylphosphoramidites with Acids and Phenols - P. I. Gryaznov, A. M. Kibardin, T. Kh. Gazizov, and A. N. Pudovik. 2152 2433  Reactions of Phosphorus(III) Thio Esters with \$\alpha_{\beta}\$ Hustartaed Carboxylic Acids - O. G. Sinyashin, T. N. Sinyashina, É. S. Batyeva, A. N. Pudovik, and E. N. Ofitserov. 2156 2438  1,3-Dipolar Cycloaddition of Diazoalkanes to Isopropenylphosphonates and Some Physicochemical Properties of Organophosphorus Compounds of the Cyclopropane Series - R. D. Gareev, A. V. Chernova, É. A. Ishmaeva, E. A. Berdnikov, R. R. Shagidullin, E. N. Strelkova, G. M. Dorozhkina, I. I. Patsanovskii, and A. N. Pudovik. 2161 2444  Hydrophosphorylation of Allene - É. E. Nifant'ev, R. K. Magdeeva, V. I. Maslennikova, A. M. Taber, and I. V. Kalechits . 2173 2459  N-(Hydrophosphoryl) Derivatives of (Alkylamino)acetic Esters in the Synthesis of Tetrahydro-1,4,2-diazaphosphorin-5(4H)-one 2-Oxides - Yu. G. Gololobov and L. I. Nesterova. 2178 2465  "Influence" of Oxygen Contained in the Solvent on the Shortwave Bands of the Second Singlet \$\pi\pi\pi\pi\pi\pi\pi\pi\pi\pi\pi\pi\pi\   |   | 2133 | 2410    |
| [1,5-Dihydro-1,5-dimethyl-2,4-benzodioxepins] - B. A. Arbuzov, E. N. Kilmovitskit, and G. N. Sergeeva.  Stereochemistry of Seven-Membered Heterocycles. VIII. Conformations of 4-Phenylbenzo[e]-1,3-dioxepanes [1,5-Dihydro-1-phenyl-2,4-benzodioxepins] - B. A. Arbuzov, E. N. Kilmovitskit, and R. M. Vafina Steric Structure of Phosphorus-Containing Heterocycles. XXX. Intramolecular Electronic Interactions in 2-Phenyl-1,3,2-dioxaphosphorinanes according to Electronic Spectroscopy - B. A. Arbuzov, R. P. Arshinova, and V. S. Vinogradova  Reactions of Dialkyl Butylisobutenylphosphoramidites with Acids and Phenols - P. I. Gryaznov, A. M. Kibardin, T. Kh. Gazizov, and A. N. Pudovik 2152 2433  Reactions of Phosphorus(III) Thio Esters with \( \alpha_i\)-\( \ext{D}_i\)-Susturated Carboxylic Acids - O. G. Sinyashin, T. N. Sinyashina, E. S. Batyeva, A. N. Pudovik, and E. N. Ofitserov  1,3-Dipolar Cycloaddition of Diazoalkanes to Isopropenylphosphonates and Some Physicochemical Properties of Organophosphorus Compounds of the Cyclopropane Series - R. D. Gareev, A. V. Chernova, É. A. Ishmaeva, E. A. Berdnikov, R. R. Shagidullin, E. N. Strelkova, G. M. Dorozhkina, I. I. Patsanovskii, and A. N. Pudovik  Hydrophosphorylation of Allene - É. E. Nifant'ev, R. K. Magdeeva, V. I. Maslennikova, A. M. Taber, and I. V. Kalechits  - Yu. G. Gololobov and L. I. Nesterova  "Influence" of Oxygen Contained in the Solvent on the Shortwave Bands of the Second Singlet \( \pi^* \) *Transition of Molecules of Benzene and Its Derivatives - I. A. Ar'ev and N. V. Makhlinets - T. N. Belyaeva, M. V. Sendyurev, A. V. Dogadina, B. I. Ionin, and A. A. Petrov  Reactions of Unsaturated Phosphonous Dibromides with Acetylenic Alcohols - T. N. Belyaeva, M. V. Sendyurev, A. V. Dogadina, B. I. Ionin, and A. A. Petrov  Reactions of N,N,N',N'-Tetraethyl-P-phenylphosphonous Diamide and of Phenyl Tetraethylphosphorodiamidite with Primary Aromatic Amines   |   | 2136 | 2414    |
| E. N. Klimovitskii, and G. N. Sergeeva.  Stereochemistry of Seven-Membered Heterocycles. VIII. Conformations of  4-Phenylbenzo(e)-1,3-dioxepanes [1,5-Dihydro-1-phenyl-2,4-benzodioxepins]  - B. A. Arbuzov, E. N. Klimovitskii, and R. M. Vafina  Steric Structure of Phosphorus-Containing Heterocycles. XXX. Intramolecular Electronic Interactions in 12-Phenyl-1,3,2-dioxaphosphoriannes according to Electronic Spectroscopy - B. A. Arbuzov, R. P. Arshinova, and V. S. Vinogradova  Reactions of Dialkyl Butylisobutenylphosphoramidites with Acids and Phenois  - P. I. Gryaznov, A. M. Kibardin, T. Kh. Gazizov, and A. N. Pudovik  2152 2433  Reactions of Phosphorus(III) Thio Esters with \(\alpha\), \(\beta\)-Unsaturated Carboxylic Acids  - O. G. Sinyashin, T. N. Sinyashina, E. S. Batyeva, A. N. Pudovik, and E. N. Offtserov.  1,3-Dipolar Cycloaddition of Diazoalkanes to Isopropenylphosphonates and Some Physicochemical Properties of Organophosphorus Compounds of the Cyclopropane Series - R. D. Gareev, A. V. Chernova, É. A. Ishmaeva, E. A. Berdnikov, R. R. Shagidullin, E. N. Streikova, G. M. Dorozhkina, I. I. Patsanovskii, and A. N. Pudovik  Hydrophosphorylation of Allene - É. E. Nifant'ev, R. K. Magdeeva, V. I. Maslennikova, A. M. Taber, and I. V. Kalechits  N-(Hydrophosphoryl) Derivatives of (Alkylamino)acetic Esters in the Synthesis of Tetrahydro-1,4,2-diazaphosphorin-5(HP)-one 2-Oxides  - Yu. G. Gololobov and L. I. Nesterova.  "Influence" of Oxygen Contained in the Solvent on the Shortwave Bands of the Second Singlet \(\pi^*\) *Transition of Molecules of Benzene and Its Derivatives  - I. A. Ar'ev and N. V. Makhlinets.  2180 2467  Some Relations Holding with Respect to the Effects of Substituents on the Reactivity of Phosphorus Compounds - M. G. Gubaidullin.  2182 2469  - T. N. Belyaeva, M. V. Sendyurev, A. V. Dogadina, B. I. Ionin, and A. A. Petrov  2184 2472  |   |      |         |
| Stereochemistry of Seven-Membered Heterocycles. VIII. Conformations of  4-Phenylbenzo[e]-1,3-dioxepanes [1,5-Dihydro-1-phenyl-2,4-benzodioxepins]  - B. A. Arbuzov, E. N. Kilmovitskii, and R. M. Vafina   |   |      |         |
| Steric Structure of Phosphorus-Containing Heterocycles. XXX. Intramolecular Electronic Interactions in 2-Phenyl-1,3,2-dioxaphosphorinanes according to Electronic Spectroscopy – B. A. Arbuzov, R. P. Arshinova, and V. S. Vinogradova.  Reactions of Dialkyl Butylisobutenylphosphoramidites with Acids and Phenols – P. I. Gryaznov, A. M. Kibardin, T. Kh. Gazlzov, and A. N. Pudovik.  P. I. Gryaznov, A. M. Kibardin, T. Kh. Gazlzov, and A. N. Pudovik.  2152 2433  Reactions of Phosphorus(III) Thio Esters with α,β-Unsaturated Carboxylic Acids – O. G. Sinyashin, T. N. Sinyashina, É. S. Batyeva, A. N. Pudovik, and E. N. Ofitserov.  1,3-Dipolar Cycloaddition of Diazoalkanes to Isopropenylphosphonates and Some Physicochemical Properties of Organophosphorus Compounds of the Cyclopropane Series – R. D. Gareev, A. V. Chernova, É. A. Ishmaeva, E. A. Berdnikov, R. R. Shagidullin, E. N. Strelkova, G. M. Dorozhkina, I. I. Patsanovskii, and A. N. Pudovik.  1, I. Patsanovskii, and A. N. Pudovik.  2161 2444  Hydrophosphorylation of Allene – É. E. Nifant'ev, R. K. Magdeeva, V. I. Maslennikova, A. M. Taber, and I. V. Kalechits  N-(Hydrophosphoryl) Derivatives of (Alkylamino)acetic Esters in the Synthesis of Tetrahydro-1,4,2-diazaphosphorin-5(4lh)-one 2-Oxides – Yu. G. Gololobov and L. I. Nesterova.  "Influence" of Oxygen Contained in the Solvent on the Shortwave Bands of the Second Singlet ππ* Transition of Molecules of Benzene and Its Derivatives  – I. A. Ar'ev and N. V. Makhlinets.  2180 2467  Some Relations Holding with Respect to the Effects of Substituents on the Reactivity of Phosphorus Compounds – M. G. Gubaidullin.  2182 2469  Reactions of Unsaturated Phosphonous Dibromides with Acetylenic Alcohols – T. N. Belyaeva, M. V. Sendyurev, A. V. Dogadina, B. I. Ionin, and A. A. Petrov  2184 2472  | Stereochemistry of Seven-Membered Heterocycles. VIII. Conformations of  | 2139 | 2418    |
| Steric Structure of Phosphorus-Containing Heterocycles. XXX. Intramolecular Electronic Interactions in 2-Phenyl-1,3,2-dioxaphosphorinanes according to Electronic Spectroscopy – B. A. Arbuzov, R. P. Arshinova, and V. S. Vinogradova   |   | 2144 | 2423    |
| Reactions of Dialkyl Butylisobutenylphosphoramidites with Acids and Phenols  — P. I. Gryaznov, A. M. Kibardin, T. Kh. Gazizov, and A. N. Pudovik  — P. I. Gryaznov, A. M. Kibardin, T. Kh. Gazizov, and A. N. Pudovik  — O. G. Sinyashin, T. N. Sinyashina, É. S. Batyeva, A. N. Pudovik,  and E. N. Ofitserov.  1,3-Dipolar Cycloaddition of Diazoalkanes to Isopropenylphosphonates and Some  Physicochemical Properties of Organophosphorus Compounds of the  Cyclopropane Series – R. D. Gareev, A. V. Chernova, É. A. Ishmaeva,  E. A. Berdnikov, R. R. Shagidullin, E. N. Streikova, G. M. Dorozhkina,  I. I. Patsanovskii, and A. N. Pudovik  Hydrophosphorylation of Allene – É. E. Nifant'ev, R. K. Magdeeva,  V. I. Maslennikova, A. M. Taber, and I. V. Kalechits  N-(Hydrophosphoryl) Derivatives of (Alkylamino)acetic Esters in the Synthesis of  Tetrahydro-1,4,2-diazaphosphorin-5(4H)-one 2-Oxides  — Yu. G. Gololobov and L. I. Nesterova.  "Influence" of Oxygen Contained in the Solvent on the Shortwave Bands of the Second  Singlet π* Transition of Molecules of Benzene and Its Derivatives  — I. A. Ar'ev and N. V. Makhlinets.  Some Relations Holding with Respect to the Effects of Substituents on the Reactivity  of Phosphorus Compounds – M. G. Gubaidullin.  Reactions of Unsaturated Phosphonous Dibromides with Acetylenic Alcohols  — T. N. Belyaeva, M. V. Sendyurev, A. V. Dogadina, B. I. Ionin,  and A. A. Petrov  Reactions of N,N,N',N'-Tetraethyl-P-phenylphosphonous Diamide and of  Phenyl Tetraethylphosphorodiamidite with Primary Aromatic Amines   | Steric Structure of Phosphorus-Containing Heterocycles. XXX, Intramolecular                                       |      | 2.20    |
| Reactions of Dialkyl Butylisobutenylphosphoramidites with Acids and Phenols  — P. I. Gryaznov, A. M. Kibardin, T. Kh. Gazlzov, and A. N. Pudovik.  Reactions of Phosphorus(III) Thio Esters with α,β-Unsaturated Carboxylic Acids  — O. G. Sinyashin, T. N. Sinyashina, É. S. Batyeva, A. N. Pudovik, and E. N. Ofitserov.  1,3-Dipolar Cycloaddition of Diazoalkanes to Isopropenylphosphonates and Some Physicochemical Properties of Organophosphorus Compounds of the Cyclopropane Series - R. D. Gareev, A. V. Chernova, É. A. Ishmaeva, E. A. Berdnikov, R. R. Shagidullin, E. N. Strelkova, G. M. Dorozhkina, I. I. Patsanovskii, and A. N. Pudovik.  Hydrophosphorylation of Allene - É. E. Nifant'ev, R. K. Magdeeva, V. I. Maslennikova, A. M. Taber, and I. V. Kalechits.  12173 2459 N-(Hydrophosphoryl) Derivatives of (Alkylamino)acetic Esters in the Synthesis of Tetrahydro-1,4,2-diazaphosphorin-5(4H)-one 2-Oxides — Yu. G. Gololobov and L. I. Nesterova.  "Influence" of Oxygen Contained in the Solvent on the Shortwave Bands of the Second Singlet ππ* Transition of Molecules of Benzene and Its Derivatives — I. A. Ar'ev and N. V. Makhlinets.  2180 2467 Some Relations Holding with Respect to the Effects of Substituents on the Reactivity of Phosphorus Compounds — M. G. Gubaidullin.  Reactions of Unsaturated Phosphonous Dibromides with Acetylenic Alcohols — T. N. Belyaeva, M. V. Sendyurev, A. V. Dogadina, B. I. Ionin, and A. A. Petrov .  Reactions of N,N,N',N'-Tetraethyl-P-phenylphosphonous Diamide and of Phenyl Tetraethylphosphorodiamidite with Primary Aromatic Amines   | Electronic Spectroscopy - B. A. Arbuzov, R. P. Arshinova,   |      |         |
| Reactions of Phosphorus(III) Thio Esters with α,β-Unsaturated Carboxylic Acids  - O. G. Sinyashin, T. N. Sinyashina, É. S. Batyeva, A. N. Pudovik, and E. N. Ofitserov   |   | 2148 | 2428    |
| and E. N. Ofitserov  | Reactions of Phosphorus(III) Thio Esters with $\alpha, \beta$ -Unsaturated Carboxylic Acids                       | 2152 | 2433    |
| 1,3-Dipolar Cycloaddition of Diazoalkanes to Isopropenylphosphonates and Some Physicochemical Properties of Organophosphorus Compounds of the Cyclopropane Series - R. D. Gareev, A. V. Chernova, É. A. Ishmaeva, E. A. Berdnikov, R. R. Shagidullin, E. N. Strelkova, G. M. Dorozhkina, I. I. Patsanovskii, and A. N. Pudovik  Hydrophosphorylation of Allene - É. E. Nifant'ev, R. K. Magdeeva, V. I. Maslennikova, A. M. Taber, and I. V. Kalechits  N-(Hydrophosphoryl) Derivatives of (Alkylamino)acetic Esters in the Synthesis of Tetrahydro-1,4,2-diazaphosphorin-5(4H)-one 2-Oxides - Yu. G. Gololobov and L. I. Nesterova.  "Influence" of Oxygen Contained in the Solvent on the Shortwave Bands of the Second Singlet ππ* Transition of Molecules of Benzene and Its Derivatives - I. A. Ar'ev and N. V. Makhlinets.  Some Relations Holding with Respect to the Effects of Substituents on the Reactivity of Phosphorus Compounds - M. G. Gubaidullin.  Reactions of Unsaturated Phosphonous Dibromides with Acetylenic Alcohols - T. N. Belyaeva, M. V. Sendyurev, A. V. Dogadina, B. I. Ionin, and A. A. Petrov  Reactions of N,N,N',N'-Tetraethyl-P-phenylphosphonous Diamide and of Phenyl Tetraethylphosphorodiamidite with Primary Aromatic Amines  |   |      |         |
| Cyclopropane Series - R. D. Gareev, A. V. Chernova, É. A. Ishmaeva, E. A. Berdnikov, R. R. Shagidullin, E. N. Strelkova, G. M. Dorozhkina, I. I. Patsanovskii, and A. N. Pudovik   | 1,3-Dipolar Cycloaddition of Diazoalkanes to Isopropenylphosphonates and Some                                     | 2156 | 2438    |
| E. A. Berdnikov, R. R. Shagidullin, E. N. Strelkova, G. M. Dorozhkina, I. I. Patsanovskii, and A. N. Pudovik. 2161 2444  Hydrophosphorylation of Allene – É. E. Nifant'ev, R. K. Magdeeva, V. I. Maslennikova, A. M. Taber, and I. V. Kalechits 2173 2459  N-(Hydrophosphoryl) Derivatives of (Alkylamino)acetic Esters in the Synthesis of Tetrahydro-1,4,2-diazaphosphorin-5(4H)-one 2-Oxides – Yu. G. Gololobov and L. I. Nesterova. 2178 2465  "Influence" of Oxygen Contained in the Solvent on the Shortwave Bands of the Second Singlet ππ* Transition of Molecules of Benzene and Its Derivatives – I. A. Ar'ev and N. V. Makhlinets. 2180 2467  Some Relations Holding with Respect to the Effects of Substituents on the Reactivity of Phosphorus Compounds – M. G. Gubaidullin. 2182 2469  Reactions of Unsaturated Phosphonous Dibromides with Acetylenic Alcohols – T. N. Belyaeva, M. V. Sendyurev, A. V. Dogadina, B. I. Ionin, and A. A. Petrov 2184 2472  Reactions of N,N,N',N'-Tetraethyl-P-phenylphosphonous Diamide and of Phenyl Tetraethylphosphorodiamidite with Primary Aromatic Amines   |   |      |         |
| I. I. Patsanovskii, and A. N. Pudovik.  Hydrophosphorylation of Allene – É. E. Nifant'ev, R. K. Magdeeva,  V. I. Maslennikova, A. M. Taber, and I. V. Kalechits  |   |      |         |
| <ul> <li>N-(Hydrophosphoryl) Derivatives of (Alkylamino)acetic Esters in the Synthesis of         Tetrahydro-1,4,2-diazaphosphorin-5(4H)-one 2-Oxides         - Yu. G. Gololobov and L. I. Nesterova</li></ul>   | I. I. Patsanovskii, and A. N. Pudovik   | 2161 | 2444    |
| <ul> <li>N-(Hydrophosphoryl) Derivatives of (Alkylamino)acetic Esters in the Synthesis of         Tetrahydro-1,4,2-diazaphosphorin-5(4H)-one 2-Oxides         - Yu. G. Gololobov and L. I. Nesterova</li></ul>   | V. I. Maslennikova, A. M. Taber, and I. V. Kalechits  | 2173 | 2459    |
| <ul> <li>Yu. G. Gololobov and L. I. Nesterova.</li> <li>"Influence" of Oxygen Contained in the Solvent on the Shortwave Bands of the Second Singlet ππ* Transition of Molecules of Benzene and Its Derivatives <ul> <li>I. A. Ar'ev and N. V. Makhlinets.</li> <li>Some Relations Holding with Respect to the Effects of Substituents on the Reactivity of Phosphorus Compounds – M. G. Gubaidullin.</li> <li>Reactions of Unsaturated Phosphonous Dibromides with Acetylenic Alcohols <ul> <li>T. N. Belyaeva, M. V. Sendyurev, A. V. Dogadina, B. I. Ionin, and A. A. Petrov</li> <li>Reactions of N,N,N',N'-Tetraethyl-P-phenylphosphonous Diamide and of Phenyl Tetraethylphosphorodiamidite with Primary Aromatic Amines</li> </ul> </li> </ul></li></ul>   |   |      |         |
| - I. A. Ar'ev and N. V. Makhlinets   | - Yu. G. Gololobov and L. I. Nesterova  | 2178 | 2465    |
| Some Relations Holding with Respect to the Effects of Substituents on the Reactivity of Phosphorus Compounds – M. G. Gubaidullin   | Singlet $\pi\pi^*$ Transition of Molecules of Benzene and Its Derivatives   |      |         |
| of Phosphorus Compounds - M. G. Gubaidullin  |   | 2180 | 2467    |
| Reactions of Unsaturated Phosphonous Dibromides with Acetylenic Alcohols  - T. N. Belyaeva, M. V. Sendyurev, A. V. Dogadina, B. I. Ionin, and A. A. Petrov   |   | 2122 | 2460    |
| and A. A. Petrov   | Reactions of Unsaturated Phosphonous Dibromides with Acetylenic Alcohols  | 2102 | 2403    |
|  | and A. A. Petrov  | 2184 | 2472    |
|  | Phenyl Tetraethylphosphorodiamidite with Primary Aromatic Amines - Yu. G. Trishin and V. N. Chistokletov          | 2188 | 2476    |
| [[(Alkoxyphenoxyphosphinothioyl)thio]acetylthio]acetic Derivatives   |   |      | 0.4.5.5 |
| - L. A. Belova, Ya. A. Mandel'baum, R. S. Soifer, and T. I. Koroleva   | Ring-Rearrangement Reactions in Processes of Nucleophilic Replacement in  | 2192 | 2481    |
| Chlorocyclophosphazenes - G. I. Mitropol'skaya, V. V. Kireev, V. V. Korshak, and A. A. Goryaev   |   | 2197 | 2486    |

| Phosphorylation of N,N-Disubstituted Amides with Phosphorus Pentachloride  |      |      |
|--|------|------|
| - C. A. Pensionerova, V. G. Rozinov, A. V. Kalabina, V. I. Donskikh,   |      |      |
| G. V. Ratovskii, and M. Yu. Dmitrichenko   | 2201 | 2491 |
| - R. V. Vizgert and V. I. Enya   | 2208 | 2500 |
| and B, E, Ivanov   | 2210 | 2503 |
| - L. A. Belova, Ya. A. Mandel'baum, R. S. Soifer, and T. I. Koroleva Vibrational Spectra and Structure of Trichlorobis(trichloromethyl)phosphorane | 2214 | 2507 |
| – É. S. Kozlov, I. E. Boldeskul, V. I. Karmanov, A. T. Kozulín, I. A. Kyuntsel', V. A. Mokeeva, and G. B. Soifer                                   | 0010 | 0510 |
| Properties of Pentaalkylphosphorodiamidimidic Bromides   | 2219 | 2513 |
| - V. V. Miroshnichenko, A. P. Marchenko, A. A. Kudryavtsev, and A. M. Pinchuk  | 2222 | 2517 |
| Normalia 1002  |      |      |
| Volume 52, Number 11, Part 2 November, 1982  |      |      |
| Alkylation of Aldehydes and Ketones with Pentakis(αΗ,αΗ,αΗ-polyfluoroalkoxy)-phosphoranes — Yu. G. Shermolovich, N. P. Kolesnik, Z. Z. Rozhkova,   |      |      |
| A. V. Kashkin, Yu. L. Bakhmutov, and L. N. Markovskii  | 2231 | 2526 |
| Reactions of 2-(2-Nitrovinyl)furan with Trialkyl Phosphites  |      |      |
| - N. M. Vafina, Yu. Ya. Efremov, T. A. Zyablikova, A. V. Il'yasov, and I. M. Shermergorn   | 2236 | 2532 |
| Reduction of Diazonium Salts at a Copper Cathode in Presence of Acrylamide   |      |      |
| - E. P. Koval'chuk, N. I. Ganushchak, V. I. Kopylets, I. N. Krupak, and N. D. Obushak  | 2243 | 2540 |
| Structure and Mechanism of the Formation of Alkylmagnesoxanoalumoxanes   |      |      |
| - S. L. Gershkokhen, N. N. Korneev, and G. I. Shcherbakova Synthesis, Composition, and Physicochemical Characteristics of Complexes                | 2246 | 2543 |
| Formed from Alkyl Sulfonates and TiCl, - R. V. Vizgert,  |      |      |
| E. V. Polyakova, and V. M. Vinogradov  | 2251 | 2548 |
| and -[diarylarsines] with Methyl Iodide - V. I. Gavrilov   | 2254 | 2551 |
| and F. R. Garieva  | 2234 | 2331 |
| O. B. Bannikova, and N. S. Vyazankin   | 2256 | 2554 |
| Synthesis and Some Properties of New Hexaammine-chromium(III) and -cobalt(III) Tetraethynylborates — Yu. N. Shevchenko,                            |      |      |
| N. I. Yashina, R. A. Svitsyn, and N. V. Egorova  | 2261 | 2560 |
| Reactivity of Si-H Bonds in Organosilanes - V. I. Zhun', A. B. Zhun',<br>S. D. Vlasenko, L. A. Belorusskaya, E. A. Chernyshev,                     |      |      |
| and V. D. Sheludyakov  | 2266 | 2565 |
| Exchange between Chloro and Hydroxy Substituents in Hydrolytic-<br>Folycondensation Reactions of Chloroorganosilanes - T. V. Vasil'eva,            |      |      |
| V. Ya. Stolyarenko, G. N. Yakovleva, and V. V. Yastrebov Synthesis of 1-[2-(Triethoxysily1)viny1]diazoles — V. D. Sheludyakov,                     | 2271 | 2570 |
| V. I. Zhun', V. G. Lakhtin, V. N. Bochkarev, T. F. Slyusarenko,  |      |      |
| V. M. Nosova, A. V. Kisin, and N. V. Alekseev  | 2274 | 2574 |
| Germatranes. IV. Synthesis and PMR and Mass Spectra of 1-Unsubstituted Germatrane and Its C-Methyl-Substituted Homologs — T. K. Gar,               |      |      |
| N. Yu. Khromova, S. N. Tandura, V. N. Bochkarev, A. E. Chernyshev,   | 2270 | 2570 |
| and V. F. Mironov  | 2279 | 2579 |
| - V. D. Pomeshchikov and V. V. Pozdeev   | 2283 | 2583 |
| Synthesis from Dimethylpyrazoles. IV. Halogenation of 1,3-<br>and 1,5-Dimethylpyrazoles - B. I. Stepanov, V. P. Perevalov,                         |      |      |
| M. A. Andreeva, A. K. Kh. Karim, V. I. Seraya, and R. Ya. Mushii   | 2287 | 2588 |
| Synthesis from Dimethylpyrazoles. V. Nitration of 4-Halopyrazole-3-  |      |      |
| and -5-carboxylic Acids — Yu. A. Manaev, M. A. Andreeva,<br>V. P. Perevalov, B. I. Stepanov, V. A. Dubrovskaya,                                    |      |      |
| and V. I. Seraya   | 2291 | 2592 |

| Synthesis from 1,3- and 1,5-Dimethylpyrazoles. VI. Analo and 1,4-Distyrylbenzene Containing Pyrazol-3-, -4-, - V. P. Perevalov, A. K. Kh. Karim, M. A. Andreeva,  | and -5-yl Groups                 |         |
|---|----------------------------------|---------|
| and B. I. Stepanov  | Substituted 22                   | 97 2598 |
| and E. A. Luk'yanets  | yrazine                          | 04 2606 |
| in Proton-Donor Media — A. S. Akopov, V. V. Bykova,<br>and A. N. Shlyapova  | ation chiff Bases                | 09 2611 |
| with Group III Metal Halides — N. N. Kharabaev, V. A and O. A. Osipov   | Oxygen-Containing                | 14 2617 |
| Donors — V. P. Mardykin, A. V. Pavlovich, P. N. Gapo<br>and O. M. Baranov   | activity 23                      | 17 2620 |
| - Yu. M. Kargin, V. Z. Latypova, and A. V. Supyrev.<br>Quantum-Chemical Investigation of the Electron Structure<br>of 1,4-Naphthoquinone and a Number of Its Derivative   |                                  | 20 2623 |
| — S. G. Semenov, V. V. Redchenko, Ya. F. Freimanis,<br>and V. A. Gailite  | 23                               | 23 2626 |
| and of the 1,3,5-Triphenylbenzene Formed in the Rang — B. V. Lebedev, T. A. Bykova, N. N. Smirnova, and T   | e 0-480 K                        | 27 2630 |
| LETTERS TO THE EDITOR  Constants of the Association of Phenol with Aryldimethyl- and Diarylmethyl-phosphine Oxides and Peculiar Featu of the Transmission of Electronic Influences in Mole  | res<br>cules                     |         |
| of Organophosphorus Compounds — N. I. Dorokhova, A. L. V. Goncharova, and O. A. Osipov  | Cycloaddition 23                 | 32 2636 |
| - R. D. Gareev and A. N. Pudovik  |                                  | 33 2637 |
| — E. A. Krasil'nikova, E. S. Sharafieva, and A. I. R<br>Method for the Synthesis of β- and γ-Phosphorylated Keton   |                                  | 34 2638 |
| - A. K. Brel' and A. I. Rakhimov  | 23                               | 35 2639 |
| of Pyridine by the "P NMR Method - A. K. Akhlebinin<br>E. V. Borisov, and É. E. Nifant'ev   | 23                               | 36 2640 |
| and É. E. Nifant'ev   |                                  | 37 2641 |
| Transamidation Reaction in the Synthesis of Methylenephosp<br>and N <sup>6</sup> -Phosphorylated Sydnone Imines. New Phosphora<br>Configuration of Substituents at Phosphorus Atom — E  | ne Intermediate.                 |         |
| A. K. Akhlebinin, A. A. Borisenko, and É. E. Nifant'<br>Regulation of Course of Hydrophosphorylation of Cycloolig<br>— V. I. Maslennikova, R. K. Magdeeva, N. V. Zyk,   | ev 23                            | 38 2642 |
| and É. E. Nifant'ev   |                                  | 40 2644 |
| - K. V. Nikonorov, Z. Ya. Latypov, and L. A. Antokhi<br>Use of Silicon-Containing Formamides and Carbamates in th   | na 230<br>e Synthesis            | 41 2645 |
| of New Heterocycles — V. D. Sheludyakov, N. I. Kiril<br>É. L. Kotrikadze, A. D. Kirilin, and E. A. Chernyshe<br>Unusual Reaction of the Elimination of an NH Fragment in<br>of 10-Amino-10-methyl-10H-9-oxa-10-silaphenanthrene<br>— A. N. Mikhailova, M. G. Kuznetsova, E. P. Nabirkin | v · · · · · · 236<br>the Heating | 42 2646 |
| T. L. Krasnova, B. V. Molchanov, N. V. Alekseev,<br>and E. A. Chernyshev  |                                  | 43 2648 |
| - V. D. Romanenko, V. F. Shul'gin, A. I. Brusilovets<br>V. V. Skopenko, and L. N. Markovskii  |                                  | 44 2648 |

Palladium Complexes of Dialkyl and Diphenyl Hydrogen Phosphites - É. E. Nifant'ev,

Reactions of 2,2-Dichloro-1,3,5,2λ<sup>5</sup>-triazaphosphorines with Bifunctional Compounds

- P. P. Kornuta, N. V. Kolotilo, and L. N. Markovskii .......

2736

2742

2413

2418

| 9 | = | 1 | 6 |
|---|---|---|---|
| 4 | J | T | ( |

| Synthesis of Aluminum Hexachloromolybdate and Its Reactions with Some Cyclic Amines - A. Kushakbaev, N. A. Parpiev, M. Ismailov, I. G. Terishkhanova, |       |       |
|---|-------|-------|
| N. S. Akhmedova, and G. Tokhtashev  Mercury Derivatives of ω-(Trialkylsilyl)- and ω-(Trialkoxysilyl)-1-alkanethiols                                   | 2421  | 2746  |
| - M. G. Voronkov, N. F. Chernov, N. N. Vlasova, I. D. Kalikhman,  |       |       |
| O. B. Bannikova, F. P. Kletsko, and M. Yu. Adamovich  | 2425  | 2751  |
| Some Germanium-Containing Free Radicals - T. A. Chesnokova, G. A. Razuvaev,   | 2423  | 2101  |
| and T. N. Brevnova  | 2428  | 2754  |
| Synthesis of New Dibutylstannylene and Tributylstannyl Derivatives  |       |       |
| of Nitrogen-Containing Heterocycles - A. S. Gordetsov, V. V. Pereshein,   |       |       |
| S. E. Skobeleva, L. A. Pavlova, T. P. Tyutina, V. M. Karlik,  |       |       |
| and Yu. I. Dergunov   | 2435  | 2762  |
| V. I. Savushkina, V. T. Inshakova, B. M. Tabenko, and E. A. Chernyshev  | 2440  | 2767  |
| Formation of Triarylboranes with Compounds of the Pyrazole Series   |       |       |
| - I. I. Lapkin, G. A. Yuzhakova, M. N. Rybakova, M. I. Belonovich,  |       |       |
| T. L. Morozova, and B. L. Ikhlov  | 2445  | 2772  |
| - V. A. Shapovalov, N. A. Kuznetsova, B. I. Stepanov, and V. D. Bezuglyl<br>Kinetic CH Acidity and Intramolecular Interactions in Series of Compounds | 2450  | 2778  |
| with an Azomethine Bond $C = N - I$ , F. Tupitsyn, N. N. Zatsepina,   |       |       |
| and A. A. Kane.   | 2452  | 2781  |
| LETTERS TO THE EDITOR   |       |       |
| New Synthesis of Aspartam - Yu. P. Shvachkin and S. K. Girin  | 2461  | 2791  |
| - E. V. Nikitin, Yu. A. Ignatiev, A. S. Romakhin, O. V. Parakin, I. P. Kosachev,  | 0.400 | 0.700 |
| G. V. Romanov, Yu. M. Kargin, and A. N. Pudovik   | 2462  | 2792  |
| and N. Yu. Zaslonova  | 2463  | 2793  |
| 2,2-Dichlorovinyl Phosphites - D. M. Malenko and Yu. G. Gololobov   | 2464  | 2794  |
| 3-(Trimethylsiloxy)-1H-2-benzophosphol-1-one, A New Cyclic System   |       |       |
| with a Two-Coordinate Phosphorus Atom - L. N. Markovskii, V. D. Romanenko, A. V. Ruban, and S. V. Iksanova  | 2465  | 2796  |
| Synthesis of Phosphorylated 2-Azetidinones - M. N. Dimukhametov, N. A. Buina,   | 2400  | 4150  |
| and I. A. Nuretdinov  | 2466  | 2797  |
| By-Product in the Preparation of Tris-2-chloroethyl Phosphite and of Its  |       |       |
| Isomerization into a Phosphonate - G. G. Blinova, I. L. Zhukova,  |       |       |
| A. N. Lavrent'ev, and L. N. Mel'nikova  | 2467  | 2798  |
| Nitrosation of (Dialkoxyphosphinyl)- and (Alkoxyalkylphosphinyl)-acetic Esters  | 0.100 | 0000  |
| - P. S. Khokhlov, B. A. Kashemirov, and Yu. A. Strepikheev  | 2468  | 2800  |
| Reactions of an Aqueous Solution of Potassium Tetrachloroplatinate (II) with Diethylphosphoramidites and Tetraethylphosphorodiamidites                |       |       |
| - A. D. Troitskaya, K. S. Knirik, R. A. Konoval'chuk, P. A. Gurevich,   |       |       |
| I. G. Martynova, T. F. Busygina, and V. V. Sentemov   | 2470  | 2801  |
| Synthesis of $2,2-(PPh_3)_2-2,1,7-RhCPCH_3B_9H_{10}$ and $2-PPh_3-2-Br-2,1,7-NiCPCH_3B_9H_{10}$   |       |       |
| - L, I. Zakharkin and G. G. Zhigareva   | 2471  | 2802  |
| - I. S. Vorob'eva and M. D. Stadnichuk  | 2472  | 2803  |
|   |       |       |